

# open for business

where have all the hackers gone?	4
magnetic stripes	7
epitaph for nynex business centers	11
hacker news	12
building a tone tracer	14
mcimax	16
inspect implementation	18
more on the class struggle	22
letters	24
some new frequencies	32
411	35
2600 marketplace	41
cyberpunk review	42
tymnet pcp outdials	44
prisoner update	46

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# 2600

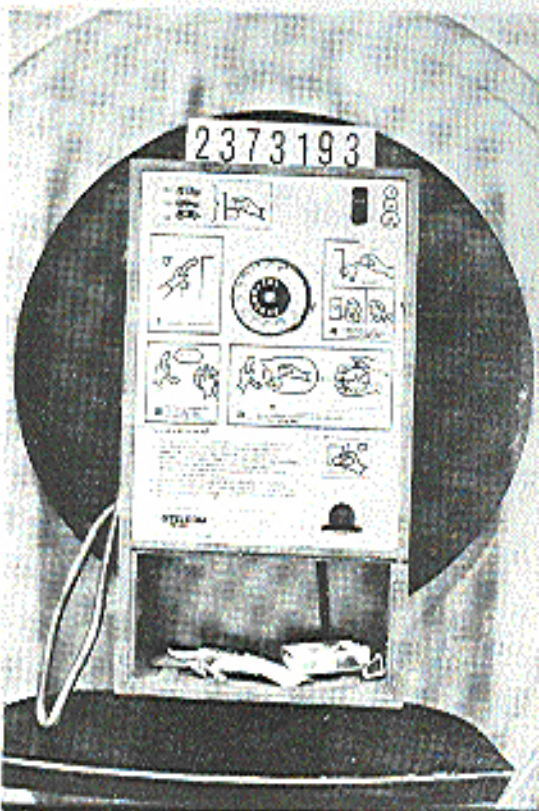
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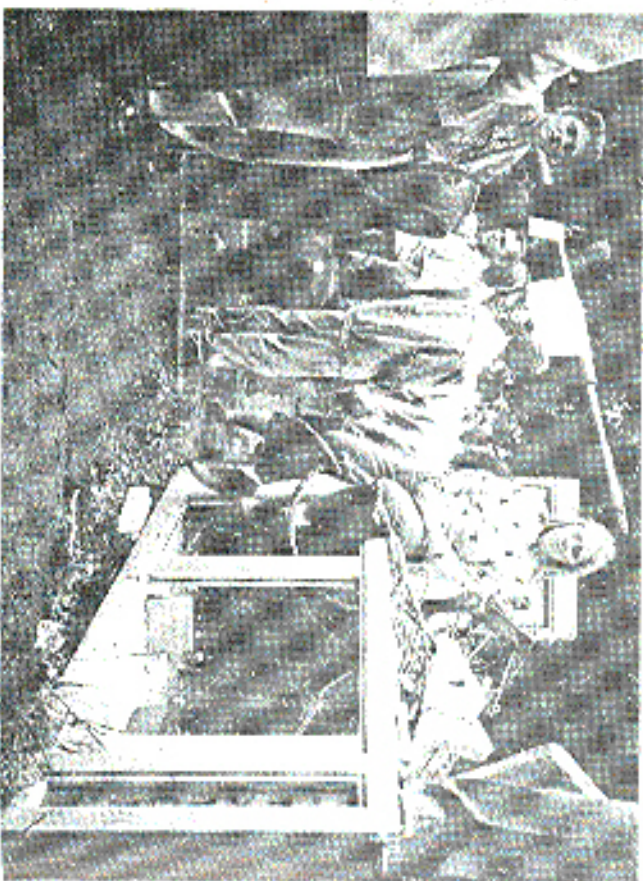
SUMMER, 1991

NEVER EXTENDED FREEDOM IS PRIVILEGE  
IS FREELY FREEDOM EXTENDED PRIVILEGE  
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IS PRIVILEGE NEARLY EXTENDED FREEDOM  
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This is a Czechoslovakian payphone. It will take a few minutes for your eyes to adjust. This is a normal reaction.



Brave 2600 photographers risked certain death recently in the Soviet Union to bring you exclusive pictures of a Soviet payphone being used as a barricade against tanks during the recent coup attempt.

SEND YOUR PAYPHONE PHOTOS TO: 2600 PAYPHONES, PO BOX 99, MIDDLE ISLAND, NY 11953. STILL WAITING FOR AFRICAN PAYPHONES.

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NOTICE

# Where Have All The Hackers Gone?

This is one of the more common questions circulating today. Only a couple of years ago, things seemed very different. Hacker bulletin boards were everywhere. Knowledge was spread freely on a multitude of topics, from telephone switches to all of the latest operating systems. Looking back, it all seemed so magical.

So what has changed? Two things primarily. One, naturally, is the technology itself. Antiquated telephone equipment is rapidly becoming a memory, to be replaced by sleek, modern paraphernalia that too often seems to miss the point entirely. Computers are becoming increasingly integrated into our everyday lives. The other change, however, is more troublesome. The people who make up our unique community are becoming affected by the draconian measures of a misguided few who are determined to rid technology of hackers, apparently at almost any cost.

We've seen many innocent people victimized in countless hacker hunts. Bulletin board operators who allowed hackers to communicate have repeatedly found themselves the targets of raids by government agencies, even though they themselves were not hackers. It happened to our own system operator in July of 1985. Other examples include parents returning home to find their front doors smashed in by the Secret Service, their child having been suspected of being a hacker. In some cases, no charges were ever filed. Yet much that had been confiscated was never returned. More recently, goons from the New York State Police forced their way into a Manhattan apartment, apparently believing that the best way to calm down an hysterical parent was to reveal their shequn. Not surprisingly, this didn't work.

The absurdities and indignities that decent people have been subjected to in the search to weed out the hackers could fill every page of this publication. In the beginning, it was easy to laugh when confused government agents confiscated TV sets and rotary telephones. But the mood has slowly been changing over the years. People are really getting hurt now. Students are being taken out of school and

sent to prison for such offenses as copying files, accessing systems that had no password protection, or just being mischievous. It's reached the point where their "crimes" are viewed by some as more worthy of punishment than crimes of violence, primarily because of the potential for damage if they decided to be malicious. The fact that the overwhelming majority of hackers are not malicious is simply brushed aside as is the weak security that allows easy access to so many.

We can't say we're surprised. As soon as it became clear that our courts were primarily interested in protecting corporate rights, it was only a matter of time before individuals began paying a heavy price.

Let's examine the facts. An individual cannot take TRW to court because they collect personal data on the individual without his/her permission. But TRW can claim its privacy was violated if a hacker figures out how to access the system. Ironically, most people don't even know what TRW was doing until hackers revealed the system back in 1984.

When IBM's Proddy recently was found to have faulty software that gave the appearance that they were able to read personal files on users' computers, they explained themselves and everybody listened. But a hacker found with a corporate document on his system is given no such luxury. It's assumed that he was up to no good and he is treated like a criminal.

Bill South is able to put people in jail for absurd, trumped up charges. (The Atlanta hackers were imprisoned for merely accessing a system that had no password.) Yet Bill South is caught red handed lying about the value of a document in court. (The 914 document that they claimed was worth \$80,000 was actually worth less than \$15.) The ridiculous pricing scheme they use to justify their actions (revealed on page 6) is believed without question. But if an individual whose life has been shattered by this corruption wishes to be compensated, he soon learns how impossible justice is becoming.

Again, there are countless examples of corporate "privacy" being protected at the

expense of individual liberty. It's a very frightening scenario and we have to wonder how long it will take for mainstream society to see the threat. Now that we live in the world's only superpower, what or who will become the new enemy?

All of this is a bit much for the average hacker to take. It's not surprising to see people keeping a low profile. But inertia cannot be forgiven. Things are changing all around us and by allowing what is clearly wrong to take place, we are as guilty as if we had done it ourselves.

Freedom of speech must be preserved at any cost. You can still exercise that right in a very meaningful way by running a computer bulletin board where people can communicate freely. You may get your door kicked in if government agents or corporate security people don't like or understand what is being said. You may get a file stamped on you. But its a risk you must be willing to take. After all, what is the alternative? If we continue down this road, restrictions on speech and assembly will extend beyond the world of computers and into our everyday lives. If registration of bulletin boards with the government becomes the norm, newspapers and magazines will be next. If you doubt this, consider the fact that there are more electronic newspapers and magazines emerging every year.

Admittedly, a lot of us are really only interested in learning. It makes sense not to get involved in all of this crap. But the fact is that we have become pawns in a much larger game. To submit to unacceptable terms and remain underground like criminals is the worst thing that can happen to the hacking community.

We have to accentuate the positive elements that once were so common. As well as an increase in boards, we want to see more people writing from the hacker perspective. The hundreds of legendary files about various operating systems need to be updated and rewritten. There are an incredible number of topics waiting to be tackled. There are also many people who want to learn about technology from an individual perspective but don't know how to begin. The key is to share information. The rest will follow.

We must also get rid of our negative tendencies. The most prevalent of these is the habit of suppressing information. It's a double standard to be on a quest for knowledge and

then keep it to yourself when you obtain it. It's also self-defeating. And it's paying the same game that the people who stand against us are playing. There are an incredible number of people who want to learn, not just share results. A populace that knows how to manipulate technology to its advantage will result in a much healthier society. The opposite is too terrifying to even contemplate. We are in the unique position of greatly influencing which becomes reality.

"Elite" hackers and hacker "gangs" do more harm than good in the big picture. Egos and machismo tend to cloud the reason we got involved in the first place. They also serve as the means to look out others. And, of course, anybody who crashes systems, wipes data, or does anything malicious for no apparent reason is doing more against hackers than any government agency ever could. Fortunately, these kind of people are extremely scarce in the hacker world, a fact that speaks volumes.

Another form of elitism can be found in older hackers who want to distance themselves from what the younger hackers are doing. They believe the way to do this is to create a new label for the "undesirables" and call them "crackers". It's an ill-conceived attempt at manipulation that simply serves to split the community. This description of hackers comes from the book Cyberpunk (reviewed on page 42). "The earliest self-described computer hackers, those at MIT who abhorred computer security, or anything else that would inhibit the sharing of information and free access to computers, hid it in for Mulders from the start. MIT hackers, often tried to bring the system to its knees, and occasionally they succeeded." Those were the "old-style" hackers, not the "young punks" of today. The fact is, we all speak a common language. While there are many different terms of hacking, further categorization is not the answer.

Where have all the hackers gone? They haven't really gone anywhere, although some would like you to believe they have. There are more hackers today than ever before. But they are becoming invisible out of fear. We hope to see more people do whatever they can to get ideas and information flowing again. The strength of our efforts will determine whether we move into new and uncharted territory or simply repeat history yet again.







# HACKER NEWS

On June 12th, Len Rose (whose story was featured in our Spring issue) was sentenced to a year in prison for sending AT&T UNIX source code over the telephone.

To further intensify the "richbait" atmosphere of this charade, the judge (U.S. District Judge J. Frederick Mox) ordered Rose to sell his computer equipment.

This is certainly one of the stiffest sentences ever handed down in the hacker world, no doubt to send another message to us all. (In fact, Rose could have been ordered to pay restitution to AT&T, presumably for the trauma of having to charge him with this crime.) What's particularly crazy here is that nobody is saying that Rose ever broke into a system or even did anything with the source code, other than examine it. Basically, Rose got shafted of something AT&T didn't want him to see, so he was put away for a year. If the case has to be summed up in one sentence, that would certainly suffice: "We'd like to know how many people are comfortable with a system that locks people away for just looking at programs and experimenting with them in the confines of their own home. How many of you could resist a glance at UNIX source code if you were capable of understanding it and if it happened to be within your grasp? It's human nature to be curious. For ages, we've been punishing and suppressing human nature in various ways. But it never seems to work because human nature has this way of bouncing back and surviving. Hackers epitomize this and will also never disappear. But they may be forced into hiding for some time to come, something that will set technology back significantly."

For those interested in writing to Len Rose:  
From: len@netsys.NEISYS.COM (Len Rose)  
Newsgroups: comp.dcom.telecom  
Subject: Farewell  
Message-ID: <telecom11.481.7@ees.nyu.edu>  
Date: 21 Jun 91 23:27:01 GMT

Just a quick note to say Goodbye to many friends and compatriots. I will be off the net for about a year I suppose. Many of you deserve more than just "Thanks" and some of you deserve utter contempt. Watch yourselves. It can happen to anyone.  
Lep

his address is: Federal Prison Camp, Seymour Johnson AFB, Culler Box 8004, Goldsboro, NC 27531-5000.

While some hackers are going to jail, others are trying to sell their talents. Former members of the Legion of Doom have teamed up to start Comsec Data Security in Etouan.

Former hackers Erik Bloodaxe, Doc Holiday, and MasterVictor started the organization this summer. "People need us," said Holiday, whose real name is Scott Chasm. "We're the best. Ten years from now we'll be the leaders in data security."

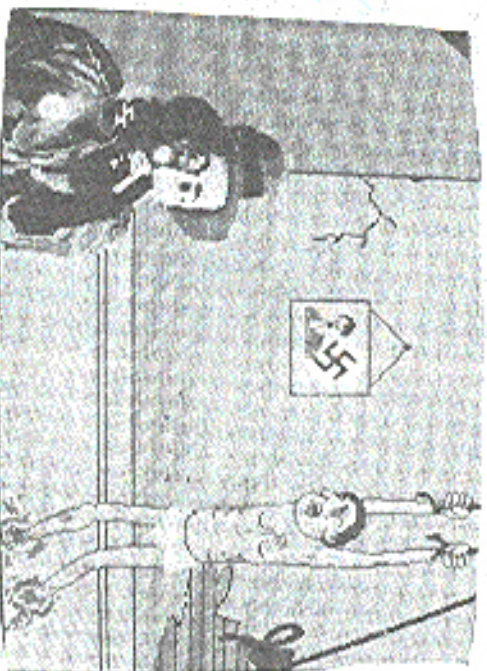
According to Comsec's press release, "We feel that we are bringing a fresh approach to security consulting in the corporate marketplace. We were all the cream of the crop of the computer underground and know precisely how systems are compromised and what actions to take to reverse them."

The group estimates its success rate at penetrating systems to be 80 to 85 percent.

Many in the corporate world say, at least publicly, that they would never trust former hackers to do security for them. Those still in the hacker world tend to look upon Comsec with a mixture of suspicion and contempt. We will reserve any judgement until we see just what it is they do and how good they are. We do hope, however, to see them try educating their clients on just what a hacker is, even though foisting the current paranoia would make them much richer.

Comsec can be reached at 713-721-6500. (Except for the area code, that number is not similar to ours!)

## JEW-DISM



Got your attention, didn't it? These are pictures from a neo-Nazi computer game circulating throughout Germany. One picture depicts a Gestapo agent torturing a prisoner. The other is a congratulatory message: "The gas has taken effect and you have freed Germany of these parasites." One group fighting against this kind of thing is the Simon Wiesenthal Center, 9760 W. Pico Blvd., Los Angeles, CA 90035.

# Build A Tone Tracer

by Mr. Upstetter

If you have ever browsed through catalogs of telecommunications equipment, you have probably seen a device called a "tone tracer". These little devices cost around \$30 and are used by telephone linemen. The main function of a tone tracer is to place a tone on a telephone cable pair so the pair can be physically tracked or easily identified when in a larger cable bundle. A tone tracer also can be used to check the polarity of a phone line, roughly measure conductivity, and provide "walk power". You can build your own tone tracer from a handful of parts for just a few dollars.

## Circuit Description and Operation

Please refer to the schematic diagram. The circuitry basically consists of two parts: a tone generator and an amplifier. The tone generator can generate either a steady tone or a wobble tone. NOR gates IC1c and IC1d along with Q2, Q3, R2, R3, and R4 create the tone. Gates IC1a and IC1b are used to switch between steady and wobble tones. C1 and R1 control the rate of the wobble tone. The frequency of the steady and wobble tones is controlled by C2, C3, R2, R3, and R4. Q1 and Q2 form a push-pull amplifier whose tone output is capacitively coupled the phone line by C4.

When switch S2 is set to TONE, the 9V battery powers the tone generating and amplifier circuitry. If the tone tracer is connected to a speaker or a phone line, a loud tone will be heard. When S1 is set high, there will be a steady tone. When S1 is set low there will be a wobble tone.

When S2 is set to CONT, the 9V battery is connected to D1, R7, and R8. The device now functions as a basic continuity checker. The brightness of the LED will vary with the resistance that is connected across the tone tracer. Also, when connected to a phone line, the tone tracer now provides talk power. If the phone line is completely dead (there is no voltage whatsoever on the line), then the tone tracer will provide enough voltage to power a couple of linemen's handsets or basic phones. This way communications can take place over short distances.

When S2 is in the center (off) position, the battery does not power the circuit at all. However, when the tone tracer is connected to a phone line, R7, D1, and R8 are connected across the phone line. Now the polarity of the line can be checked. If the alligator clip marked NEG is connected to the ring (-48V) side of the line, and the alligator clip marked TIP is connected to the tip (ground) side of the line, the LED will light. If the clips are reversed, the LED will not light. Typically, the tip wire is green and the ring wire is red.

Also, note that when connected with the correct

polarity, the LED will be bright when the line is on hook and dim when offhook. When a ringing signal is present, the LED will flash.

## Construction, Testing, and Troubleshooting

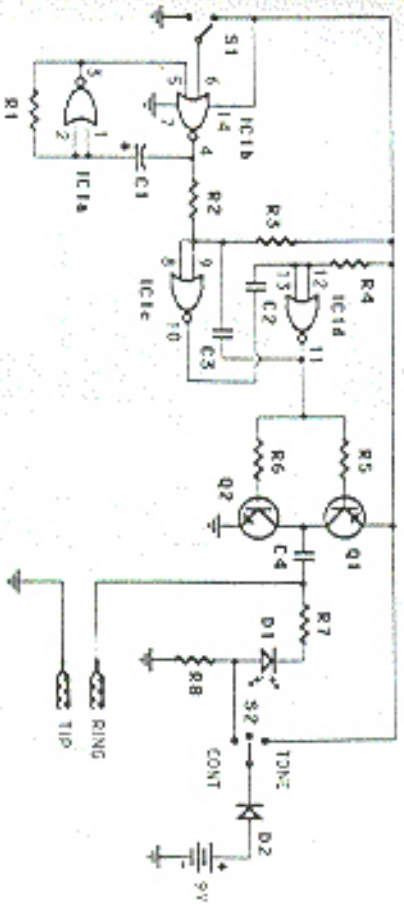
Construction of the tone tracer is fairly straightforward and doesn't require any special know-how. You will probably want to solder it together on a small breadboard so it can be built into a compact, handheld enclosure. For convenience, you may want to connect a phone plug so well as alligator clips to the output of the tone tracer. Also, you may want to use a socket for the IC. All parts are available from Moser Electronics. Call 800-946-6575 to get your free catalog.

After you have constructed your unit and double checked all the connections, connect it to a small speaker and switch S2 into the TONE position. You should hear a rubber oscillator tone. Toggle S1 to make sure you get both wobble and steady tones. Then disconnect the speaker, connect the tone tracer to a phone line, lift your phone off hook, and do the same thing. The other minor functions should be easy for you to check out on your own.

Tone tracers are designed to be used with an inductive pickup of some sort. Inductive tracing is advantageous because no physical connections need to be made to the line, thus no wires need to be cut, no clips need to be hooked onto terminals, etc. It makes the job quicker and simpler. To trace the line of our tone tracer, you could spend \$40.00 on a "Tone picker" type inductive pickup designed for this purpose. But since you want out and built your own tone tracer from scratch to the first place, you probably don't want to do that. A marginal alternative is to use a basic audio amplifier (such as Radio Shack 277-1008) and a suction cup pickup (Radio Shack 44-553). Connect the tone tracer to a phone line and switch S2 to TONE. You will be able to hear the tone when the pickup is placed very close to the cable or its terminal block. Winding 1 or 2 turns of the cable around the pickup should improve things. Unfortunately, this setup is vulnerable to 60 Hz noise from electrical wiring. You will need to reduce the pickup for the best amount of buzzing.

## Parting Words

A tone tracer is a handy thing to have at times. So instead of shelling out some cash to Specialized Products or Jensen Tools, you can build this simple, cheap circuit. But for those of you who are not electronically inclined, there is an even easier and cheaper way. In most areas, there is a test number you can dial that puts a loud 1004 Hz tone on your line. For instance, in certain parts of California this number is your prefix plus 0002. Of course, you need to know the test number in your area to take advantage of this.



## PARTS LIST:

- C1- 47µF electrolytic
- C2- C3- 01 µF monolithic 20%
- C4- 1 µF 100V
- D1- standard LED
- D2- 1N4004
- IC1- 4001 CMOS quad NOR
- Q1- MPS402 PNP
- Q2- MPS442 NPN
- R1- 1M 1/4 W
- R2- 470K 1/4W
- R3, R4, R5, R6- 100K 1/4W
- R7- 1K 1/4W
- R8- 8.2K 1/2W
- S1- SPDT
- S2- ON-OFF-ON

Additional parts: large alligator clips, modular phone plug, 9V battery and clip, IC socket, enclosure, PCB.

## TONE TRACER SCHEMATIC DIAGRAM AND PARTS LIST



# hacking mcimax

by MCI Mouse

MCIMAX is actually MCI's link into the MAX database which contains information concerning many MCI as well as AT&T and US Sprint products. The data retrievable for each service includes current usage rates and volume discounts for products, comparison matrices, feature and benefit statements for products, guidelines for entering and processing orders, and current product promotions.

This article will deal specifically with MCIMAX, containing information about MCI's domestic products.

MCIMAX can be logged into from an MCI terminal. I am writing this article under the assumption that you can access the MCIMAX database remotely either via dial-up or network hopping. From an MCI Terminal ID Screen, type L PREF (for Mid-Atlantic, Northeast, Southeast, or International divisions) or L PREPSAC (for Midwest, Pacific, Southwest, or West divisions). At this point, you will be prompted for a Sign-On Number, Volume Name, and Password. For Sign-In Number, enter R### where ### is the branch ID number. The branch IDs go by hundreds (for example, 500 to 536 is the Southwest Division range). Your volume name is MCIMAX and a password is not required at this time to access the database. You should now be in the MCIMAX database.

MCIMAX is structured like a book. There are 26 chapters, A through Z, containing the following

information:

- A Reserved
  - B Dial \*17\*Premier Calling Plans
  - C Operator Services
  - D Corporate Account Ser- vices/CAS PLUS
  - E WATS
  - F Hotel WATS
  - G University WATS
  - H PRISM I
  - I PRISM II
  - J PRISM III
  - K PRISM PLUS
  - L MCI 800 Service
  - M Vnet
  - N Fax
  - O MCI Card
  - P Worldwide Direct Dialing
  - Q Digital Gateway T-1 Access
  - R Fractional T-1/DSO and VGPL
  - S Terrestrial Digital Service 1,5
  - T Digital Data Service (DDS)
  - U Switched 66 Kbps Service
  - V Hospitality Plus
  - W MCI Network
  - X Rate Tables
  - Y AT&T Competing Products
  - Z US Sprint Competing Products
- Within each chapter, there are topics, sections, and items (i.e. in Chapter K, PRISM PLUS, Topic 1 is Description, and sections include Description Introduction, Overview, Call Processing, Target Market, and Sales Successes). The bottom of your screen should contain the pertinent information as to how to select your sections within the topics of a chapter, but if not, you should place an X by the section which you wish to browse.
- Another way of accessing information is via the Index. From

your arrow prompt at the bottom of your screen, you can type an Index word or a letter if you're not sure of the exact index entry. For access to AT&T 800 Readyline rates, for example, you would type ATT 800 READYLINE, RATES. If you simply typed A, you would be given an alphabetical list of topics within the Index from which to choose. Tab moves from item to item from the list, and an X by the topic will go to that Index item.

Function keys to use with these menus include:

- \* PF1 Displays previous page/topic.
- \* PF2 Displays next page/topic.
- \* PF3 Exits to MIS logo screen.
- \* PF4 Displays table of contents.
- \* PF5 Lists the chapters in the volume.
- \* PF6 Lists the topics in the chapter/volume.
- \* PF7 Lists the sections in the topic.
- \* PF8 Allows you to type an index entry/displays the index.
- \* PF9 Displays the previous chapter in the volume.
- \* PF10 Displays the next chapter in the volume.
- \* PF11 Gives access to bookmark or glossary options/shows more options.
- \* PF12 Toggles the menu (at the bottom of the screen) on and off.

(A # indicates use with Table of Contents and a \* indicates use with the Index.)

The bookmark function allows you to return to a set screen at any time. Using the PF11 key to see the options, hit PF9 to set the bookmark. Then enter a name for the bookmark when asked. To go back to where you were, hit PF11 again. From the

PF11 menu, you can retrieve a bookmark by entering PF10 and choosing the name of the bookmark to return to.

There is also a glossary available in MCIMAX. If the bottom of the screen's display does not have PF8 indicated as "Glossary", hit PF11 to toggle. Once selecting PF8, use the PF1 key to get a list of glossary terms, and enter the term to be defined at the prompt, or enter a blank line to return to your previous work.

Although this system is not as intriguing as some telecommunications computer systems, it is good to know what you're toying around with if you stumble upon one. Good luck and have fun!

**2600 has meetings in New York and San Francisco on the first Friday of every month from 5 pm to 8 pm local time. See page 41 for specific details.**

NO COST/VOLUME

# Inspect Implementation

We received an internal document recently concerning security implementations on Digital's EASYnet. The employee who supplied this information wishes to be known as Condor Woodstein. We will quote some of the more interesting sections.

'Someone has written that failing to plan is planning to fail! No where [sic] could this be more true than in the area of security. In an effort to improve upon our planning, a new security tool is being released for all VMS systems. This tool will run with SECURPAK, and will provide the system manager with a new level of system security testing that was never before available. Additionally, it will complete the process by providing a greater level of reporting than exists today.

'...INSPECT will be required on all VMS nodes of the EASYnet INSPECT, Interactive Network Security Policy Examination/Compliance Toolset, has been developed to meet the rigors of Corporate Security Standard 11.1. When run, INSPECT will check a system to ensure that it is in compliance with this security standard.

'All system managers in DECNET Areas 16, 34, and 36 are being asked to install the INSPECT tool on their system by December 30, 1990. Additionally, any system manager of a system in a hidden area, ie: 62, 63, who is serviced by an area 16, 34, or 36 pass-thru server must also install INSPECT. INSPECT is now a required security tool, just as SECURPAK is. The XSAFE security testing tool now tests for the existence of INSPECT on

your node.

'...Presently, Digital Equipment Corporation owns the largest proprietary computer network in the world. This network, EASYnet, is a target for hackers, and others. The EASYnet represents a wealth of resource that is available to the Digital employee, and it is a resource that must be protected. INSPECT is a tool that will assist the system manager in safe guarding [sic] our resources.

'INSPECT is divided into two portions, inspectors and agents. Basically, inspectors are assigned a specific task. Agents are generated by the inspectors, and carry out the actual investigation. INSPECT's purpose is to check the security of your node, in an ongoing manner, and review 5 major subsystems on your system. They are:

'File Subsystem: system file ownership and protections, overall file protection, public and private, world writable [sic] files.

'Account Subsystem: checks for privileged accounts, account ownership, proxies, system support accounts, and inactive accounts.

'Network Subsystem: checks network objects, DECnet access; Dialup and LAT protection.

'SYSGEN Subsystem: compares SYSGEN parameters for changes.

'Audit Subsystem: checks for security auditing and OPCOM.

'At a minimum, INSPECT runs automatically every 28 days, and reports the findings of these subsystems to the Security Office, as well as generates a report to be used by the system manager. This report

can be used to correct potential security holes.

'Furthermore, INSPECT can be run on demand by the system manager, and it is encouraged that INSPECT be run whenever there is a change made to a system, wherever unaccountable changes are found, or whenever increased activity is noticed on your system.

'INSPECT provides reporting capabilities to both the system manager and the Security Office. As INSPECT finds potential security issues, it attempts to resolve them by creating a DCL command procedure that will 'patch the hole.' INSPECT does not apply the patch that is developed. It is up to the discretion of the individual system manager to ensure that this is performed. It becomes part of the system manager's responsibility to check for VAXmail messages from INSPECT, and take corrective action if necessary.

'Information regarding LOCKDOWN is being provided to the system manager to ensure that they understand what LOCKDOWN is and what it does. Until otherwise notified.

\*\*\* LOCKDOWN SHOULD NOT BE UTILIZED ON ANY SYSTEMS \*\*

'Perhaps one of the most misunderstood features of INSPECT is LOCKDOWN. LOCKDOWN is a default feature of INSPECT. Whenever INSPECT is run, it creates a file in the SYSS\$MANAGER directory. This file is named:

\*SYSS\$MANAGER:INSPECT\$node-name\_LOCKDOWN.COM

'This file contains DCL code for each violation that INSPECT finds, and is readable by the system manager. INSPECT does not process this file, or apply any patch to your system. At the end of an INSPECTION,

a VAXmail is sent to the system manager for review. The VAXmail contains all the security issues that INSPECT found. INSPECT also notifies the Security Office of the node violations by sending a token of information. This information is automatically placed in the Regional node database.

'...LOCKDOWN is run interactively, and 'suggests' values or options for the system manager to use. The system manager is always prompted to determine if a change should be made, and the LOCKDOWN procedure does not make any changes without first consulting the system manager. This is key to the understanding of LOCKDOWN. INSPECT will not change anything that you do not approve. When used in this manner, the system manager will find LOCKDOWN to be very helpful as all the necessary commands to correct a security issue have already been set up. All the system manager has to do is approve the processing of them. By regularly running INSPECT, and reviewing the LOCKDOWN file, the system manager will become familiar with what needs to be done, and should find the LOCKDOWN feature helpful.

'On a test Micro-VAX, with only 8 accounts, INSPECT generated a 75 block command file of DCL code. Larger systems and clusters will generate a much larger file. System managers are encouraged to carefully read and utilize this code. Some of the items that the LOCKDOWN code can do for you by default are:

'Ensure that all non-privilege accounts have a password minimum of 8 characters.  
'Ensure that privilege accounts have a password minimum of 15

characters.

\*Delete SYSUAP entries for SYSTEST, SYSTEST\_CLIG, and FIELD.

\*Modify SYSGEN LOG (login parameters).

\*Ensure that all accounts expire.

\*Enable VMS Accounting and AUDIT.

\*Set protections and ACLs on files in accordance with standard 11.1.

\*Rename the DECnet SYSUAP entry to DECnet\$SERV.

...As indicated in the INSPECT v2 installation, the system manager is cautioned against blindly running the LOCKDOWN procedure. Careful evaluation of the procedure's contents is encouraged. It is possible that the LOCKDOWN procedure may effect other layered products on your system.

For example, LOCKDOWN inserts commands to start VMS accounting. If you are running on a smaller VAX, i.e. Micro-Vax or a 3100, you probably have 'near' disk space, and probably don't want ACCOUNTING running. In this case, when you are prompted by LOCKDOWN regarding the running of VMS ACCOUNTING, you would use the default, 'N'. In this case, LOCKDOWN would not start accounting.

...Every 28 days, at minimum, INSPECT will check your system and send a token to the 'Security Office.' The Security Office is a special node that is set up to receive these tokens of information and process them. Within Central States Region, a node is being set up that will be the focal point for INSPECT tokens. The Security Office will be able to track nodes throughout the Region, and ultimately Corporate Security will be able to track the entire EASYnet. Nodes suspected of being open to intrusion will be contacted and

required to take corrective measure.

Perhaps one of the more important features of the Security Office is its ability to generate mail messages. Security managers will be able to review the results of the INSPECT tests quicker, and can utilize the automated features of the Office to mail discrepancies to both the System Manager and the cost center manager. The office can generate 3 types of canned reports:

1. A report of all nodes that have issues.

2. Generate VAXmail directly to system managers, with a copy to the cost center manager, for every node that has an issue.

3. Generate mail memos sent directly to System Managers, with a copy to the cost center manager for

**"Agents are generated by the inspectors, and carry out the actual investigation."**

Missing 'tokens'. This memo indicates that INSPECT either is not running on your node, or has not been installed.

...INSPECT will be used in conjunction with XSAFE. In fact, XSAFE now checks for the installation of INSPECT on your node. Any node that does not have INSPECT installed will be flagged by XSAFE as a violation.

For those who may not be aware, XSAFE is an external tool used by Corporate Security to test every node on the EASYnet each quarter. XSAFE actually attempts to break into a node

by logging into known accounts that should be turned off. It checks file privileges on system and network files, and performs other security tests. At the end of the test, the results are VAXmailed to the SYSTEM account where the system manager can read it and correct the issues. Additionally, the results are sent to the master XSAFE database. Quarterly, a report is generated showing the results of all XSAFE testing in the geography. Nodes which contain failures are contacted and requested to address the violation.

...Hidden areas are actually 'small' or local' DECnet areas within larger DECnet areas, and are used to place additional nodes on the network when network space becomes scarce. A single large DECnet area may have many, smaller hidden areas. The hidden area is separate from the EASYnet, but connected via a pass-through server. This server allows the hidden area users to access systems and data much as any other system, except they must pass-through the server to get to it.

When installing INSPECT, systems in a hidden area should consider their Security Office to be their pass-through server. That is, the system that connects their hidden area to the EASYnet serves as the Security Office for that hidden area. When INSPECT is installed, merely point it to the pass-through server. System managers responsible for pass-through servers will need to install INSPECT indicating that this node is a pass-through server. This indicates that the server will need to take the INSPECT token it receives and pass it to the Central States Security Office node.

...All EASYnet nodes must continue to run SECURPAK. Nothing

changes with regard to this utility. All system managers should have SECURPAK installed and running on their respective nodes, and should be reviewing the reports generated by this tool. In comparison, SECURPAK runs each daily and delivers reports to the system manager. SECURPAK looks a [sic] login failures, and other items as selected by the system manager. INSPECT, on the other hand, does not run daily, it runs as scheduled by the system manager. INSPECT digs deeper into the system, and communicates its findings to the Security Office. SECURPAK doesn't. These two tools, when combined, will make it easier for the system manager to ensure that their system is secure.

...Any time that you suspect that your system, or the EASYnet has been compromised, do the following:

\*A. Use the VMS AUDIT command to dump the audit log: \$ANAL/AUDIT/SINCE-DATE/OUTP UT=filename SYSSMANAGER.

\*B. Mail this log electronically to ANCHOR::NETWORK. Include you [sic] name, address, and DTN.

\*C. Call Network Operations and inform them of your situation.

\*D. Call Central States Regional Security.

\*E. Keep communication with regard to the incident within a close circle of individuals. Do not spread information regarding the incident that may or may not be true. You might not have a problem.

...System managers now have both SECURPAK and INSPECT to use in securing their systems, as well as VMS Security features such as AUDIT. When combined with the external testing of XSAFE, the EASYnet will become a much more difficult target for hackers to penetrate.

# the class struggle

We have obtained internal documents from Bellcore which go into some detail on CLASS services that are being offered around the country. Because these services are of growing concern to our readers and much of the population, we will share the information here.

Caller ID is referred to here as Calling Number Delivery (CND), "a revenue-producing service intended for residential and business telephone customers."

When CND is activated on a line, the DNS (directory numbers) of terminating calls are transmitted to the called CPE (customer premises equipment). For an interoffice call (calls between two different central offices), the caller's DN is transmitted from the originating Stored Program Controlled System (SPCS) to which the calling party is connected, to the terminating SPCS to which the called party is connected during call setup. It is then transmitted from the terminating SPCS to the CPE during the first long silent interval of the ringing cycle (between the first and second rings). A long silent interval is defined as an interval of silence lasting 3 or more seconds. For an intradial call (calls within the same central office), the caller's DN is retrieved from SPCS memory for transmission to the CPE. Then, depending on the options offered by the CPE, the DN is displayed and/or printed out. The CPE might also be arranged to store the DN for later retrieval by the customer. These options are transparent to the SPCS. In the SPCS performs the same actions for each case. For both interoffice and intradial calls, transmission of CND data from the terminating SPCS to the CPE should never take place while the CND customer is in an off-hook state.

Firstly, CND service allows the called CPE to receive a 4-digit or longer Personal Identification Number (PIN) instead of the calling DN. The PIN would be dialed by the calling party as part of the calling sequence. Receiving a PIN would indicate that the call is from someone that the called party probably wants to talk to, even though the call might be from a line having a DN that would not have been recognized if displayed to the called party (e.g., a coin line).

In each of these cases, the data transmission is provided via a simpler voiceband digital interface (VDLI). Requirements for this interface are defined in TR-TSY-000030, SPCS/Customer Premises Equipment Data Interface.

Although not offered initially, it might be desirable in the future to provide an interface to Directory Assistance or another database so that the calling party name instead of the calling DN can be determined and transmitted to the called party's CPE for display.

If possible, an attempt should be made to retrieve a partial calling line DN (e.g., less than seven digits for intra-NPA calls, less than ten digits for inter-NPA calls) if the complete DN is not available due to a lack of Common Channel Signaling (CCS) connectivity. If a partial DN is determined, it should be transmitted to the CPE. The NPA portion of a partial DN should always be included in the transmission to the CND customer's CPE, even if the call is intra-NPA. If neither a partial DN nor a complete DN is available, an out-of-service/DN-unavailable (OOU) indicator, signified by the letter 'O', should be transmitted to the customer.

The following describes responses to irregular user action during activation of CND.

The customer may dial an incomplete, nonexistent, or erroneous feature activation or deactivation code when attempting to enable or disable this service. If the activation or deactivation code dialed for CND is incomplete or nonexistent, the customer should, as a minimum, be given reorder time. However, it is desirable in this case to give the customer a voice announcement explaining the situation encountered. If the dialed code exists but is not the correct code for the service, another service may be inadvertently accessed. This would occur if the customer's line is allowed access to the service associated with the dialed code. To lessen this problem, customers attempting to access the CND service should be given a voice announcement verifying that the service has actually been accessed.

If a CND activation or deactivation code is dialed by a subscription customer, then reorder time should be given.

Similarly, when dialing the activation or deactivation codes for CND, the customer may also request activation of the service while the service is already active, or request deactivation when the service was previously disabled. In these cases, it is desirable to provide an announcement explaining to the customer that the service was already activated or deactivated, as the situation requires. If this is not feasible, the customer should be given a confirmation tone.

The allowable data transmission rates for this service are given in TR-TSY-000030. It is desirable that a rate of 1200 to 1800 bits per second be provided for this service.

CND uses CCS (Common Channel Signaling) to transmit the calling line DN from the originating SPCS to the terminating SPCS. The protocol used by this feature should be Signaling System Number 7 (SS7), as specified in TR-NPL-000246, Bell Communications Research Specification of Signaling System No. 7. This feature should be capable of functioning on an intradial basis if the office is not served by a CCS network.

Originating offices equipped with SS7 should include the calling DN in the address information field within the calling party address parameter of the Initial Address Message (IAM) for all BOC (Bell Operating Companies) and intradial interoffice calls placed over trunks served by SS7. In addition, if the calling party address is a private number or is a DN from a line having the calling number privacy feature active, the presentation indicator field in the Calling Party Number Parameter of the IAM should be set to '0' (i.e., 'presentation restricted'). A terminating office should expect to find the calling party address in the IAM if the intradial call setup path does not involve an interexchange carrier and is served entirely by SS7. TR-TSY-000317, Switching System Requirements for Call Control Using the Integrated Services Digital Network User Part (ISDNUP) states that the calling DN is a required field in the IAM.

CND is not available on operator-handled calls.

Special customer-initiated testing does not have to be provided; the customer is normally able to determine if this service is operating correctly when an incoming call is received. However, it is a desirable option to

allocate a DN within each SPCS equipped for CND (the DN to be specified by the telco) that the customer can dial to receive a sequence of test data messages. This gives the customer a more positive testing mechanism and can prevent some customer trouble reports. If this customer testing capability is to be provided, the customer should be able to dial the special DN, hang up, and receive a series of test data transmissions designed to check the capability of transmitting any digit in each position. The first test message should begin within 10 seconds of the customer disconnect and should contain the pattern 0123456789. The remaining nine messages should rotate each of the digits (0 through 9) in each of the digit positions. Two additional test messages should transmit the letters 'P' and 'O', respectively.

All of this only scratches the surface. There will be many more details to reveal. You can obtain a free listing of Bellcore documents by calling 800-521-CORE and asking for document SR-TSY-000264.

Caller ID decoders are now available to hackers in kit form. International Microwave Corporation (800-992-5511) sells the IMC-CID-1K for \$38. It decodes the Caller ID address and converts it to the RS232C serial format. MS-DOS software is available for \$6.50 that displays and logs all data to disk. The unit (also available assembled for \$45.50) is much less expensive and similar to commercial PC-compatible Caller ID decoders costing hundreds of dollars. This device allows you to actually study the actual binary datastream.

**2600 Needs Writers!**  
Send submissions  
(articles, clippings,  
etc.) to:  
**2600 Editorial Dept.**  
PO Box 99  
Middle Island, NY  
11953

# The Letters Section

## UNIX Password Hacker

Dear 2600:

I looked at the source for the UNIX password hacker in the latest issue, and it's bogus. Not that it won't work. It probably does, but it's conspicuous as all hell on most systems.

Let me explain. It calls `crypt(3)`, right? That's a system call, and most UNIX boxes by system calls for various accounting reasons. But `crypt(3)` is special. A lot of boxes are set up so that if something starts calling `crypt` (but not `libc`) like the program you published, and lights go off. At the very least, it's going to give the publisher of the program calling `crypt` all the time.

And running `strip(1)` over the binary, even if the source has been obfuscated, will show that it invokes `crypt`, `passwd`, `passwd`, and even `atrace`.

Let me say why this is important. If you've been reading *UNIX*, you'd know don't slip you on the wire anymore, even if you find you're running a password hacker. Someone at University of Georgia's just been suspended for running out the decrypted file to someone else. He was just a Czech who helped a hacker. Suspended. I'd be really upset if it were me.

Here's what might be done instead for dealing with passwords. 1) Get sources for something which works just like `crypt(3)`. 2) Upload those, and afterwards for something like `fs` and `lshpw` to your PC. Security is a two way street. Don't use a public system for stuff you don't want others to know about. 3) Run a version of your password hacker locally. It's a little slower, but you can't get caught for it.

(Or you could just grab the source for `COFF`, and run it locally. It does the same thing.)

Dear 2600:

I have read three issues of your magazine and I am impressed. As a systems administrator of eight UNIX systems, I find the information about hacking to be useful in keeping my systems secure (I am currently reviewing the UNIX password hacker to examine all the passwords on my systems and e-mail the users who have "hackable" passwords.)

I feel that your publication is necessary to help drive home the point that computers are simply another method of communicating and that the founding fathers provided our right to communication in the First Amendment. And further, that a legitimate government of the people should have no fear that the individuals that make up the population can communicate. While you guys are not so polished as the BBC, your message is a solid and strong one. Further, even if I did not agree with your message (and there are some parts of it that I find provocative) or services, which I disagree with, I believe that you have a First Amendment right to publish things that I do not agree with.

All in all, I am glad to have subscribed to your magazine and look forward to receiving future editions. BRP

Dear 2600:

Thanks for a great magazine! I've started picking up your magazine a few issues back and I'm sure not more impressed with each issue. Your article about the UNIX password hacker was fantastic. So far, I've been able to run it without any modifications on BSD, Unix, and AT&T UNIX System V systems and it worked perfectly every time, giving me passwords to more accounts than I could ever need. But I hope you don't mind if I make a suggestion. On one system I was running Thacker on, the system administrator was really pretty nervous. Since Thacker automatically goes into the background, why not just go ahead and delete it once it's running? That way, no one can even succeed with it. You'll have to interrupt to run it again, but it's a lot safer to do it this way. Thanks!

NEETS 6

Unfortunately, a very minor observation is that `kill` background processes (like `daemon`) understood by the best method is to employ a program that runs on your own computer and interacts with a decompiled password file. This cannot be interpreted with and is not illegal in any way. The law is only broken if you use (or attempt to use in some cases) something else I discuss without permission. Figuring out their password is not the same thing.

## Another 2600 Meeting

Dear 2600:

Please notify other 2600 subscribers in Acton of our decision to have the first Acton 2600 meetings with the Pioneer JCCA (Independent computer community) meetings. Several members of the Pioneer chapter of JCCA are also subscribers to 2600. Our meetings are normally the second Tuesday of each month. Times are 8:00 pm-10:00 pm, 6:00 pm-8:00 pm, 7:00 pm-9:00 pm. We meet at the Executive Park Hotel, 1100 N. Central Avenue in Phoenix. The Phoenix JCCA displays a badge is (602) 596-2612.

## Access From Korea

Dear 2600:

Greetings from the Republic of Korea. I have a question about your Winter 1990 "word on the Street" - "Spirit Express" service, and also about the ROK? It so, can I reach it on a military phone? USA Direct is \$50/minute for military phones but they won't process 800 numbers so I can't call Spirit's customer service number. Can you help me?

Martinez in the ROK

According to the people in Spirit, South Korea is not on their immediate list. The same is true for MCT's Call USA and Allied's Option USA. If you need to speak to someone at Spirit, you can try calling 618-64-0901. That's the corporate headquarters in Kansas City. They may even accept a collect call from South Korea. Spirit Express has a bunch of additional sites that service Europe. They are: Belgium - 31-0914; Brazil - 055-8016; El Salvador - 791; Finland - 9300-1-0284; Germany - 0120-0015; Ireland - 1-800-55-2041; Israel - 177-102-2272; Italy - 172-1877; Malaysia - 610-2016; New Zealand - 080-999; Portugal - 0647-1-877; Sweden - 020-399-021; and Switzerland - 155-9777.

## Red Box Notes

Dear 2600:

In the Spring issue, you published my letter complaining that the red box built from plans published in 2600 (based on the Radio Shack dialer) didn't work. With further experimentation, I have discovered that it does indeed work perfectly only not from NYNEX based phones. From Pacific Bell phones in Los Angeles it works well and in Washington DC it seems to work. I am curious though, as to what ability, if any, the phone companies have in determining which calls were placed with red boxes. It all seems too easy. Keep up the great work you're doing!

LARRY

New York, NY  
We know of no way specific calls could be flagged as having been placed with a red box unless a live operator answered something and entered an investigation. There are possible scenarios where the phone company could refer to that call to a particular number were being red boxed but, for the most part, the reason seems to be to reduce expenditures in the telephone line as NYNEX has done. To this day, though, participants in the NYNEX region that haven't been serviced in a while (mainly the rocky/mtn) still allow red box use.

Dear 2600:

First of all, being a new member, I'm enjoying the mag. In reference to the Autumn 1990 issue, page 32-33, concerning a tone dialer into a red box - I made the modification and it has not failed. A great piece of work by somebody.

One thing I found to work and have tested all over California is the local call. I programmed "L" for a local call. When I want to call home in town or make any local call, I put a ticked ton for the purpose, then press L. There three tones are 20 cents where I live, then the local number with no problem. You can't use the unit for the initial five tones.

Anything new as to when California will have Color ID? The phone company will not say.

TH

VENTURA, CA

Some parts will have it before others. But you will get some form of it and probably job's done.

## UNIX BBS's

Dear 2600:

There are four BBS's that I know of in the New York City area that allow people using personal computers to access UNIX-based systems.

Arvidian's local BBS (212-578-0869) has a Netmail system for sending messages. Unfortunately, messages from UNIX-based networks. You are given credits by its group and can send a message to anyone as long as you have the exact address of the person to whom the message is addressed (e.g. 2600@earthlink.ca). This is a fine. There are no monthly charges although a \$5 fee and a stamped, self-addressed envelope are requested by the group. If I send you a copy of the rules of etiquette. All registered users get 60 minutes per day. The only unique feature of the Netmail section is that you can't upload a message for unreasoning, you have to type in the message to be sent.

The *Novast Embassy* (212-451-1944, 1943) charges \$35/\$50 per year for access to ENRX-based boards. Unfortunately, the telephone number is always busy. (The people running this board want to sell more phone lines but don't have the money.) It may be a good idea to subscribe as subscribers can use a special telephone number and get more time on the system than those who don't pay anything. There are also two UNIX boards which can be used if you know the UNIX command set and are willing to pay monthly fees.

*Myriad* (718-424-4383) also has a UNIX-based private-line to reception between 11:00 pm and 7:00 am. (If you pay the monthly fee, you can use the board anytime.) Patch 016-831-1525 (6400 to 2600).

This is probably a very incomplete list of BBS's that receive source code under UNIX. If only use the *Freedom* local BBS but have found that the restrictions for using Netmail are not very clear.)

There are probably many more boards run under UNIX or providing access to UNIX systems in the 212/978 area codes. I don't know if the general public has access to any of the university systems. I suggest that you call CUNY, Columbia University, etc. for information on public access and fees.

LT

## Interfacing With Mainframe

Dear 2600:

We have a database system at work which is linked to a mainframe in another city. This database network deals with invoicing and generating reports concerning equipment via a password. I wonder if you guys or any 2600 readers could tell us how to get into such a system by using my Amn ST and ESign modem.

MAAG

Saudi Arabia

You need to determine whether or not there is a dialup access or a leased line arrangement. If it's the latter, you won't be able to access it from an outside computer or terminal. If it is a dialup, it shouldn't be too difficult to find out the phone number. Since you work there, we

answer you can get, or already have, the password. Now you may not your computer to talk to the world now. Is that high speed or something? Your modem can handle it if your modem is able to establish a connection for you to check your mail and get the messages. You can have to get the terminal emulation done. That can be accomplished through your modem software once you determine what kind of terminal you want to emulate. If you have any more questions or advice, please write me. If you don't have your work, you should be able to do the same thing on your Atari, or you do at work. Just be patient.

### Send A Message

Dear 2600:  
I received one of AT&T's "Take Control" letters requesting that I switch to AT&T for my long distance calling.

If you call the number listed on the letter (800-225-7466), you can request to be deleted from AT&T's mailing list. You may also give a reason for your request. I encourage people to call and request to be deleted. Also request that they take down the reason and inform them of your concern with AT&T's public deception with respect to the Craig Neidhart case and their attempt to make an example of an innocent person.

### Caller ID Questions

Dear 2600:

I wonder if you could help me with a problem. I get annoying phone calls. Usually they occur on a Monday or Friday. Just about every hour, the phone will ring and a recorded (female) voice says: "Please enter your security code" and waits for a four digit touch tone entry. The phone company will not tell. Caller ID in our area (Queens, NY) shows that I had out who is calling?

Any suggestions, including where I can get pics to build a Caller ID box (if that will work) would be appreciated.

MRB

First of all, Caller ID is not in your area yet so a Caller ID box is completely useless to you. Second, Caller ID will not solve your problem unless the call is local. Odds are that it isn't, so you have no option. Over it to contact the Association of Call Screeners and know them for a sign on your line. If the calls are predictable (never later on a certain day) it will simplify the task, as will keeping the call going for as long as possible. Your other option is to hook the system that's calling you. You already know it's a four digit code. See if there's any way to get an operator. Try to get the system to do different things. There is also the possibility that somebody is playing a trick on you and connecting you to this machine if you ever hear a ring before the machine comes on or if it sounds like a three ring connection at any point, that could be what's happening.  
Dear 2600:  
I'm not sure if you've covered this or not. I'd expect

you probably have. Caller ID is the system that is coming along since coffee pills. The Caller ID blocking system they have in my area is terrible. It will not work if you run the whole genre of options available. Reason: though the number displays as P or P33VALTE, you can still call the number to your Privacy List or call back directly. In which case you can get your line to see what numbers are being called. I haven't tried this, this is an assumption that the numbers are stored in the box, and not in some memory hole in the bowels of C&P. Am I right? I so don't tell everybody! If the subscriber makes this we're screwed.

I also have a question. My home answering machine is the horrible kind that recognizes tones. Something weird, though, at my office we use a phone system with AT&T HVAL-10 phones, and I can't retrieve my messages directly using these phones. It's as if the messages recognized. But if I take another security extension, and press the buttons as fast as I can on phone #2, come out the earpiece and into the multiplex of #1, they're recognized. What would cause this? I know we have banked lines because I can use them for most other mail applications I've tried (my bank account, etc.). Any comments?

BR

Debrahnda MD

At home are you relatively free areas of the country that have Caller ID up and running, we cannot give you a definite answer. But you should not be able to call a blocked number under any circumstances. That never rings (except if you find that you can guess what the subscriber are likely to make that if it's true - they don't want us to tell them. Regarding your exact case problem, you probably just have long standing issues. Either they're not found enough on our particular instrument or they're not long enough. This is a common problem with the newer phone system. Get a new date (look for) in our area, they do mean where you are. (It's always sad to see technology moving backwards.)  
Dear 2600:

Please print a diagram and/or instructions on how to make one of the new Caller ID boxes. Manage that and I'll order all the back issues and a lifetime subscription.

MRB

Amelia, TX

The call has gone out. Meanwhile, check out the August issue of Radio-Electronics. You may also find information to solve things on pages 22, 23, and 41 of the magazine you're currently holding in your hands.

### C&P Info Needed

Dear 2600:

First off, the phone number to leave a message for a worker that includes the First Lady and the President in the White House is (202) 456-1111. The number is (202) 456-2461, also for the White House.

Second thing, to get a computerized voice telling you what number you are calling from, dial 811, I don't know if this works outside of the Chesapeake and Potomac (C&P) area though.

Finally, I enjoy the hell out of your magazine and I am a great influence in this (the Washington, DC) area - when you published your booklets in the Winter 1990, all the books were checked out at the library, or all sold out at the bookstore, within days of receiving your magazine. Try printing more copy on C&P and a program to "brute force" search all 999/999 phone numbers via modem - to look for modems.

The Monk  
Arlington, VA

### More Hackerphobia

Dear 2600:

I thought I'd share with you a story, and a tribute to the depressed spirit of our society.

I am enrolling a clipping from the course descriptions for my high school. When I read the description for a computer technology course, I said to myself, "God, I can finally use my school time to expand my knowledge of something useful." I talked to the counselor and he arranged for me to be interviewed by the teacher who he arranged for me to be interviewed by. He asked me what I wanted to learn more about operating systems and software that I've not yet been exposed to. The next asked me what I knew already. I told him I'd programmed in BASIC and C and was familiar with UNIX and XENIX operating systems. He told me I'd be overboard.

As you may have guessed, I was not allowed to enroll in the class. A friend of mine with far less technical knowledge than myself was however. A few days later, my friend talked to the teacher about me and the teacher said, "I got the impression he was some sort of hacker dude. He'll probably try to crash our networks."

Why do they fear me? Do they fear my knowledge? My political alignment? My attitude? What? Do they think I make war with long hair? Why do they associate hackers with game players?

If I was in their class, I would not have crashed their networks. I would have enjoyed building them. But I am pleased off now. Really pleased off, and you can bet your mother's soul I'm gonna crash 'em now.

Peter The Great

Trust people like criminals and they will eat like criminals.

### Information Sources

Dear 2600:

Can you tell me a source for the book mentioned in the Winter 1990/91 issue, page 9, Computer Virus: A High Tech Disease?

CH

Los Angeles, CA  
Try a Fourt Books in your area. They seem to have everything under the sun. Finally, that a divorce computer case may be able to help. The book was written by Amy Arger and published by Abacus. Call some bookstores and libraries with that information and they should be able to guide you to it.

Dear 2600:

We would appreciate being listed among the other publications related to counterintelligence, hacking, etc., which we found in your magazine. We stand for free speech and free access to information. The Eagle is an independent journal of security, investigation and counterespionage published by International Security and Defense Alliance (I.S.D.A.). Our address is PO Box 6304, Corpus Christi, TX 78466-8303.

H. Reatha, Ph.D., Exec. Dir.

Dear 2600:

On page 11 of the Winter issue, Dr. Williams mentions the Argonaut List of Lies (second column, near the top). Dr. Williams is old. There's the official word as of September 1990.

The file is now available for anonymous FTP from host Argonaut Systems (192.33.33.33) in directory netusa. The publisher of the file is reportedly named groups. There is currently no electronic mail access to this file.

To keep people informed about changes to the file, there is a mailing list for the List-of-Lies "update notices". When any updates are made to the file, an announcement message will be sent to the notification list. Copies of the file itself will not be sent to the list. Site representatives who maintain or redistribute copies of the file for their own networks (DECNET, Xerox, SNA, Mailbox, etc.) and who receive access to the file by Internet FTP may make arrangements to have the file sent to them, if necessary. The register will normally not be sent to individual users. To get on or off the notification list, send requests to:  
INTEREST:ARGOC75-BEQ:335@NSC.SRI.COM.  
To submit new descriptions of mailing lists, to update existing information, or to delete old mailing list information from the List of Lies, send a message to: INTEREST:ARGOC75-BEQ:335@NSC.SRI.COM.

Pauline

### On "Breaking In"

Dear 2600:

After reading your summer 1990 issue, I would like to know my two cents in. Most of the negative feedback writers compared breaking into a house with "breaking" into a computer. I find this to be an inaccurate comparison.

The reality of the situation is this: The hacker made a phone call. When the computer at the other end answered with a high pitched carrier tone, the hacker's computer made some high pitched whistling sounds back. What are those whistling sounds? They are a language, words, a representation of human thought. In America we have an ordained set of laws called The Bill of Rights, perhaps the most radical legal document of all time, but dated, nevertheless. The first Amendment of the Bill of Rights protects a citizen's freedom of speech. A modern and a computer are just as much a tool of language as a typewriter or a printing press, and should be afforded the same protection under the law. If we can agree on that point, let's continue with the stream of logic.

The hacker has called a phone number. The phone's answered and some words are exchanged through the translation of the modem. The computer asks who is who? The hacker replies this is so and so. The computer says how do I know this is so and so. Phone is. Tell me the password we agreed upon when you called before. At this point the hacker must either guess or have access to a password. The hacker repeats a word he has heard that he has gotten from friends. Said on another computer, etc. Hearing this word the computer says okay, you must be so and so. Now ask me whatever you want. The hacker now has use of that computer by false pretenses because he has said the right combination of words. At this point the hacker reads information that is stored on the computer. He decides he wants a copy of a certain document and the computer says okay, since you are so and so, you can have it. The hacker is not stealing it. It is still there on the computer. He has an exact copy made just for him. The hacker is done now. He has what he wants and hangs up the phone.

What has happened? The computer has given the hacker an exact copy of some text the hacker requested over the phone, thinking the caller was someone else. The hacker has lied and said, yes I am so and so, give me a copy of that text. The hacker has tricked the computer, but has he broken a law? If so, is the law he has broken legal? That is, does it follow America's fundamental laws laid down in the Bill of Rights?

In my opinion the hacker hasn't broken the law. What the hacker has done is what collection agencies, private detectives, and market research organizations do all day long. They call someone up saying they are someone else and if the person who answers the phone is trusting enough to give out information over the phone, then the caller has achieved his goal and received the information he wanted. This may not be very nice, but it is hardly illegal. People who hook up computers to the phone system should realize that they are hooking their systems into a public system that anyone in the world with a phone can get at. If security is an issue with your information, you should take precautions to protect it. The world is filled with people who act in a way you may consider to be unethical or not nice but they're not breaking the law. Both sides of the issue should recognize that all laws including The Bill of Rights are just words of men and women who want to make you behave in a certain way. Laws are just a way of enforcing power over people who disagree with the law maker. If you disagree that laws you shouldn't be surprised if the power behind the law confronts you. It has come down to a power struggle between the two parties. Behind all laws is the threat of violence and imprisonment. In breaking the rules you run the risk of encountering the beast that hides behind the law.

Computers are amazing devices that are meticulously doing the pre-established power structures. Expect a fight for the power.

Scott Alexander  
San Francisco, CA  
We've been living that fight for more than seven

years now. The more people we drag into it, the better. Above all else, we have to fight the knee-jerk reaction that comes from people with a very shallow understanding of the technology. We hope more people think the answer through or you did.

### Very Concerned

Dear 2600:

I have bought two issues of your magazine and find it interesting and enlightening. I hope to be able to contribute an article someday. I have only your word that you are not, in fact, some FBI/SAS/AT&T front to obtain hacker's names and addresses. You really should print some information on your operation to provide some assurance to your readers that this is not the case. For instance, are your names and addresses kept in a computer database? Printed lists? Could the files be maintained what checks pass through your bank account? Do you have a bank account? Do you mail 2600 from one central location where packages can be tracked from source to destination? Is there someone assigned to your hard drive to be triggered in case of a raid? Anything (and please) should be made want to know.

Anyway, keep up the good work. It is appreciated and admired.

Quantum  
Austin, TX

We're not running a covert operation here. Everything we do is open to public scrutiny. Our mailing list, though, has never been touched by anyone outside of 2600. Of course, the post office could be writing down every name that ever shows up on a copy of 2600. But that would be pointless and contrary to our company. If you have a better idea of how the government works to actually launch investigations into everyone who receives interesting mail, the way to fight such operations would not be by hiding and allowing it to continue. Challenging authority is our obligation, particularly if that authority is being abused.

### Interesting Numbers

Dear 2600:

The ANAC number for the 702 Las Vegas area is 449. Also, the number 662 turns off the phone for a couple of minutes. It is fun to dial 662 at a payphone that is in a busy location and sit back and watch people wonder why it doesn't work. One question: what are COCCOT numbers? And do you have any of them for Vegas? How can I find them?

Number 264  
Las Vegas, NV

COCCOT's are Customer Operated Coin Operated Telephones, in other words, these would payphones that nobody understands. They frequently connect with some sort of computer when they are called. The computer can do all sorts of things. Like tell you how much money it has, allow you to object rates, change the time, etc. Some even allow you to listen in on the one surrounding the phone. Most COCCOT's don't have phone numbers posted and call to ANAC numbers or generally disconnected. You

might be able to get an operator to tell you the number for the best way to call somebody collect and have them accept. When they get their bill, the number will be printed out. By the way, another ANAC for Las Vegas is 383-9943.

### COCCOT Theories

Dear 2600:

When I noticed that George W. from Canada had written to you about a Philadelphia COCCOT (somewhere in Center City - I'd have to find it myself), I decided to do some checking of my own. Here are the results of two of the calls I made:

CONNNECT

768-9115-848134+81850+C44107\*922\*9009\*061310  
03333+00000111@\*2155465134+81766+C44107\*9522\*

NO CARREIER

CONNNECT  
768-9115-848134+81850+C44107\*922\*9011\*91061610  
15319+000007T@\*2155465134+81950+C44107\*9522\*

NO CARREIER

[Believe that the theory your source cited about the fifth field (069107) being the number of calls made that day is incorrect. On Friday the 14th, I made several calls to your phone to acquire the diagnostic information (on my Tandy 100 - I know the little error word always be harsh) and the fifth field said 069 the entire day.

However, the second field did change - by increments of 25. I believe that the second field is the value of charges (in cents) that the phone has received. Since a coin box can't hold \$419.60, this must either include calling card charges, or the value must be computed by the COCCOT service owner to the amount of the phone the last time the coin box was emptied.

Finally, to clear up the mystery in the sixth (last) field: the 1 in the middle that you couldn't identify in your reply to George W. indicates the day of the week. I checked this over the course of the weekend and compared George's letter and the New York COCCOT reports from your prior issue's letters, and the theory holds.

Astoria Quarterly  
Philadelphia

We believe your theories on the second field and the single digit may indeed be correct. But we still believe it's possible the fifth field is counting the number of outgoing calls. There are many payphones, depending on location, that can go through an entire day without a single person using them. It's also possible that the answer, if that's what it is, was misjudged.

### Valuable Lessons

Dear 2600:

This letter is intended for those people who break the first commandment of the Plover Programmer's Ten Commandments (PAP #85) which is: "Don't use your phone telephone wires, for those who do not must surely hear the words of the chief special agent down

your telephone."

Blue boxing is something that is done quite easily here in Ontario and Quebec. All we need to do is dial any phone number (handled by AT&T) that goes to the United States. The two areas in which we can be off of are Springfield, MA (617) and Buffalo, NY (716). From there you do whatever you want and can with your base.

I began blue boxing in 1986 and always based from a pay phone. In 1988 I began boxing to CompuServe's CB. Since we only have Toronto and Durham which both charge about \$10/minute, it was much cheaper to box to a local CBS number at 30 cents an hour. I was eventually able to box to the local number in Springfield, MA so as not to charge more with an ID call. I did all my computer boxing from a local school to be safe and still obeying the first commandment.

In 1989 I was subscribed to call forwarding. I noticed that when I forwarded my number to an 800 number in the States, an operator would come on the line to a number verification. Hmm, this was interesting. Bell Canada didn't know who I was, so I would give them my number except my own. This made me think that I could get away with boxing at home. Because AT&T, if they received my number when dialing over there, would have the number I gave to the operator. I began doing this in November 1989. I began using the blue boxing techniques to call anywhere, anytime. It was a lot of fun.

Now I know that the Bell equipment here (DMS-100) was recording everything I dialed even as an operator with my blue box. I also know that Bell should be minding my doorknob soon. But they never came by. I got rid of my call forwarding, but continued calling from home. Every once in a while I would know down, because I was making just too many calls.

Well, a finally happened. Recently, a friend of mine called me up and said that Bell Canada Security just visited him. They searched his nice little bill of \$3000. He was dialing 976 services every night for a couple of hours. Then about an hour later Bell Security showed up at my door. I was shocked out and panicking as I went to the door with my parents yelling at me. I looked down at the amount they wanted from me and then almost laughed. They only wanted \$350! Boy, what a relief. Of course, they took all my spare change, but at least I was able to pay for it. They only had my calls for the previous month. My theory is that the computer makes the dialing info every month when the bill is made.

I found out that for the whole 413 and 819 area codes, there are only three security people from Bell Canada working them. That's the whole province of Quebec excluding Montreal. I guess that's one reason why it took over a year and a half for them to catch us. They had been again maybe one. I have another theory who just started thinking this account and was caught for \$80. And there were quite a few others being caught that day. The security guy told me, I wanted to ask why it took them so long to come and get me, but of course I wasn't going to let them know how long I was doing this for. Now if you're taking yourselves why I didn't just

any that I didn't have a clue as to who they were talking about, you can blame that on my parents. My mother who spent talking way too much.

Anyway, the point of this little story is that if you are hearing from your house late, you should stop while you're ahead. Hopping that Bell won't cover by just isn't enough. If you want to take that risk as I did, then go ahead, but always be prepared to pay the price when security comes by.

The only real bummer in this is that I lost \$30 bucks and that I can no longer speak to bulletin boards. Plus I've gotta start trying to shove box a 2600 over the pig phone, which just isn't as easy as it is at home.

113  
Quebec

Our readers if there would be or much hearing if access to bulletin boards was made affordable to everyone.

## Hacking Water

Dear 2600:

We recently had placed by the local water company, so indeed all users, a new meter that uses a transducer (my guess) at the meter and then a color conductor (looks like Western Electric, gray plastic cover) was run to the outside of the premise for remote reading.

As a result of some investigation, only three of the four conductors are used of the aforementioned wire. They terminate in a 16 pin, weather protected, black plastic receptacle, marked Negative A/B.

For educational purposes, can anyone describe how the thing works?

RP  
Hiller, PA

## Numbers

Dear 2600:

I found an interesting Voice Messaging System at 800-477-4700. It's owned by Pillsbury, Madison, and Salem. Matchbox numbers are four digits and start with 85. Another number is for those go-to-wish TV commercials so they can empty out your wallet the 90's way. It's at 800-777-5667. Also, there's a COXOT at (604) 270-4794. Hit 0 to run on the telephone and hear what's going on.

American Aesthetically  
Virginia

## Another MCI Ripoff

Dear 2600:

MCI is here to save you money. A new service introduced by MCI allows you to have MCI bill you for "regional" calls, i.e. calls within your area code. The benefit is that your volume discounts would be combined for the regional and long distance and 800 calls. The reality of the matter is interesting however. For example, a call from Asheville, Illinois to Libertyville, Illinois for 11.8 minutes at 9:23 pm is billed \$1.42 by MCI and \$1.17 by Earthlink. The volume discount would reduce the MCI charge by about 14 cents. The MCI way of doing

business is a net LOSS of over 650 percent. So, when MCI's concept of saving money with this program is lost in the reality of their rates.

CR  
Libertyville, IL

## The Value of 2600

Dear 2600:

One of the great values of your mag is that the book issues I have saved are always full of things I didn't understand a year ago but are invaluable now.

Came to notice your article on UNIX was mostly irrelevant to me in the winter of 1989, but a newly acquired Internet account makes it now 230% more essential.

CH  
New York

We've always put out the magazine so it doesn't become outdated. While operating systems may change, the basic *Powerworx* will remain relevant. And the spirit of learning lasts it all together.

## Disturbing Observations

Dear 2600:

I found a most disturbing feature of many BIX's and similar private networks. When talking to them, they are usually, but not always, identifiable by having either a check or different ring sounds than direct CD exchanges.

The problem is that I have sometimes noted that I get charged for a completed call before the person actually answers. This happens even more annoying when getting charged for busy signals (which is how I discovered the problem in the first place). This is also annoying when getting the "number you have reached is not a working number or our computer" message.

This does not always occur, but it seems common enough of a problem to warrant concern, and perhaps, complaints.

My other discovery involves the ANI available to 800 service users. I got a message on my answering machine to call a person at an 800 number. No ID was given. So what the company was.

When I called back, I found out it was a credit agency trying to bother me about some past bills (which were delinquent, but that's another story altogether).

The next day my fax number, which was the line I had called out on, started getting repeated voice phone calls. Seems one of them marked down my ANI'd number (the fax line), and decided they could use it in harassment mode.

DB  
Pleasant, NY

Nobody can call you if you tell them to stop calling you. If they continue, you can report them for harassment. It's as simple as that.

The address to send letters is 2600, PO Box 99, Middle Island, NY 11953. On the networks, mail to 2600@well.sf.ca.us

Last issue one of our readers appealed for bank identification numbers (BINs). We've received several small lists and one huge one for Mastercard. We're told that the Mastercard Visa list sells for \$395. We'll part with the Mastercard half for \$5 and if we get the Visa half, we'll offer it all for \$10. Meanwhile here's a small sampling.

Here's a list of some BIN's (Bank Identification Number) that appear on credit cards. Numbers beginning with 4 are Visa cards, 5's are Mastercards.

- 4013 BANK OF BALTIMORE
- 4013 CHEVY CHASE
- 4019 BANK OF AMERICA
- 4024 BANK OF AMERICA
- 4027 ROCKWELL FEDERAL CR UNION
- 4032 HOUSEHOLD BANK
- 4080 ASSOCIATES NATIONAL BANK
- 4070 SECURITY PACIFIC
- 4071 COLONIAL NATIONAL BANK
- 4084 AMFC FEDERAL CREDIT UNION
- 4084 COOP SERVICES CREDIT UN
- 4112 VALLEY NATIONAL BANK
- 4114 CHEMICAL BANK
- 4131 ALASKA USA FEDERAL CRE UN
- 4121 PA STATE EMP CREDIT UNION
- 4121 PENN STATE EMP OYES C U
- 4131 TALENTOWN
- 4132 UNION TRUST
- 4128 CITIBANK OF SOUTH DAKOTA
- 4226 CHASE MANHATTAN BANK
- 4229 COPRESTATES
- 4234 NATIONAL BANK OF NORTHWEAS
- 4234 SECURITY FIRST
- 4231 CITIBANK
- 4301 MORGENTHAU BANK
- 4310 BFCU
- 4311 FIRST NAT BANK LOUISVILLE
- 4312 BARNETT BANK
- 4316 LEADER FEDERAL
- 4318 PIONEER BANK
- 4316 STANFORD FED
- 4317 FIRST TIER BANK OKLAHMA
- 4337 FIRST ATLANTA
- 4332 BANK ONE INDIANAPOLIS
- 4337 FIRST AMERICAN BANK
- 4339 PRIMERICA BANK
- 4342 NCBM/NATIONS BANK
- 4387 LLOYD ELLIOT/FORVAL CRED UN
- 4387 BAYTEL CREDIT UNION
- 4388 FIRST SIGNATURE BK & TRUS
- 4388 TEXAS INDEPENDENT BANK
- 4401 GAINY-WILKINSON BANK
- 4413 FIRST TEN BANK LINCOLN
- 4421 INDIANA NATIONAL BANK
- 4428 BAY HARBOR BANK
- 4428 CHOICE
- 4436 SECURITY BANK AND TRUST
- 4443 MERRILL LYNCH BANK/TRUST
- 4447 AMERITHRUST
- 4452 EMPIRE AFFILIATES FED CU
- 4452 PORTLAND TEACHERS C.U.
- 4488 REPUBLIC SAVINGS
- 4502 CIBC
- 4502 CANADIAN IMPERIAL BANK
- 4506 BETHUNIA S.I.L.K.
- 4510 ROYAL BANK OF CANADA
- 4520 TORONTO DOMINION OF CAN
- 4537 BANK OF NOVA SCOTIA
- 4538 BANK OF NOVA SCOTIA
- 4539 BARCLAYS
- 4544 TSB BANK
- 4570 CHASE
- 4570 CITIBANK
- 4584 BANK OF QUEENSLAND
- 4573 FIRST CARD
- 4707 TOMPKINS COUNTY TRUST
- 4719 ROCKY MOUNTAIN
- 4721 1ST SECURITY
- 4726 WELLS FARGO
- 4784 AIBT
- 4800 MEXIA NORTH AMERICA
- 4815 MACOM FEDERAL CRED UNION
- 4820 IBM MID AMERICA FED CR UN
- 4833 U.S. BANK
- 4842 SECURITY PACIFIC WASH
- 4921 HONG KONG BANK
- 4921 NATIONAL BANK
- 5122 FIRST BANK CARD CENTER
- 5180 BANK OF MONTREAL
- 5217 CITIDEN FIRST NAT OF NJ
- 5217 MANUFACTURERS HANNOVER
- 5217 UNION TRUST
- 5224 MIDLAND BANK
- 5224 NAT WESTMINSTER BK LONDON
- 5230 HARRIS TRUST & SAVINGS BK
- 5232 BANCOSUE BEAMTENBANK AG
- 5239 SOUTHWEST BANK
- 5242 CHEVY CHASE FSB
- 5248 NATIONAL BANK OF CANADA
- 5289 CANADA TRUST
- 5294 FIRST CARD
- 5290 BAY BANK
- 5298 PRIMERICA
- 5299 MARYLAND BANK OF N.A.
- 5293 MEXIA
- 5333 BANC OHIO NATIONAL BANK
- 5371 PROVIDENT NATIONAL BANK
- 5353 COMMONWEALTH BK AUSTRALIA
- 5359 COOSE STATES
- 5398 AIBT
- 5398 AIBT UNIVERSAL
- 5402 WE STPAC BANKING COMP
- 5410 CITIBANK
- 5419 LAWLEY/FEDERAL CREDIT UN
- 5414 STATE STREET BANK & TRUST
- 5415 UNION BANK
- 5415 COMERICA
- 5418 PIRELLA'S BANK
- 5417 ASSOCIATES NATIONAL BANK
- 5417 BANK OF NEW YORK
- 5418 HOUSEHOLD BANK OF CALIF
- 5418 HOUSEHOLD BANK SALVANS
- 5420 COLONIAL NATIONAL BANK
- 5427 HUNTINGTON NATIONAL BANK
- 5433 UNIVERSITY CREDIT UNION
- 5434 C B T
- 5434 CITIBANK
- 5439 CHASE MANHATTAN BANK



# SECRET FREQUENCIES

by Bernie S.

In the February 8, 1991 issue of "The Leader", an internal newsletter for employees, NYNEX published an article entitled "NYNEX Receives Licenses to Test New Wireless Technologies". In it, Paul Donovan, staff director of NYNEX Science & Technology, was quoted, "Radio technology in the local loop may provide a cost-effective alternative to copper wire" and, "It may also facilitate the provision of new services, adding mobility to our customers."

In a subsequent interview, Donovan conceded that while the FCC (Federal Communications Commission) granted the frequencies for testing specific applications, NYNEX wanted to grab "as many frequencies as possible" to "get (NYNEX engineers' creative juices flowing" so that they "would have plenty of frequencies to work with if we come up with

something...."

Despite the appearance of deception (or outright fraud), Donovan justified NYNEX's actions, saying "there's a big market for wireless technologies." Later communication with Donovan and the FCC uncovered specific radio frequencies and locations for testing. 2600 readers in Boston, New York, White Plains, and elsewhere with radio scanners or other VHF, UHF, and microwave receiving (or transmitting) equipment may want to "tune in" on the telephone

company and report on their activities. Mobile and fixed station authorization is granted at power levels up to one watt on the following frequencies. Some Time-Division and Code-Division Multiple Access (TDMA and CDMA) digitally-encoded loop access experiments on 1.858-1.990 GHz are scheduled to begin in mid-1991 and on July 1,

1992. (Read "CDMA: It's Not Just For The Military Anymore", TE&M Magazine, Nov. 15, 1990 for an

explanation of these technologies.) The call signs to be used are KF2XBW, KF2XBX, and KF2XEG. Paul Donovan can be reached at the NYNEX Science & Technology Center (914) 644-6165. The FCC can be reached at (717) 334-7059.

For those interested in just who the FCC has allotted (or sold) the electromagnetic spectrum to lately, a nice 32" x 51" color wall chart covering 3KHz-300Ghz is available for \$2.75 from the U.S. Government Printing

Office, 710 N. Capital Street NW, Washington DC 20402. Ask for publication number 003-000-00652-2. For other frequencies and information on monitoring techniques and equipment, Monitoring Times (704) 837-9200 and Popular Communications (516) 681-2922 are excellent sources.

NYNEX Science & Technology Experimental Radio Frequencies

VHF (MHz)	152.510-152.810
	152.486
	152.834
	152.840
	157.770-158.070
	157.746
	158.094
	158.100
UHF (MHz)	454.375-454.975
	459.375-459.975
	825.000-845.000 (illegal)
	849.000-851.000
	862.000-866.000
	864.000-868.000
	870.000-890.000 (illegal)
	901.000-928.000
	931.000-932.000
	940.000-941.000
Microwave (GHz)	1.850-1.990 (loop access)
	2.110-2.130
	2.160-2.180
	2.400-2.4835
	3.700-4.200
	5.725-5.850
	5.925-6.425
	10.700-11.700
	13.200-13.250
	17.700-19.700
	21.800-23.200
	21.200-23.600

## 411 - news about phone companies

### Regulating Scams

A Senate subcommittee has long perforce with computerized phone calls that try and sell things to people. The Senate Commerce, Science, and Transportation subcommittee heard a whole swarm of complaints from witnesses and senators. Legislation has been proposed by Senator Ernest Hollings (D-SC) to ban computerized sales pitches to residential telephones. Hollings discussed the free speech concern, saying, "The right is one of privacy for the individual in their home. I don't know of anyone who places a phone in their home in order to receive commercial solicitations." In a bid for a sound bite, Steven Hsain, South Carolina's Director of Consumer Affairs, said, "Computer calls are now the modern form of telephone terrorism." Robert Bulmash, president of the Private Citizen phone consumer group, waxed poetic: "We are nothing more than sources of revenue to an industry that has lost its moral compass. This sort of conduct industry will sanction us... by using our conditioned responses to answer the phone as if we were nothing more than Pavlovian dogs with wallets." Woo.

Meanwhile, New York's Public Service Commission is finally taking action against private payphones that don't connect customers to local telephone company operators. A PSC survey showed two thirds of the independent payphones in the state don't pass "or" calls to a local operator but rather to a company operator who often hasn't a clue as to how to handle an emergency call.

And, speaking of scams, according to the New York Daily News, the Post Authority of New York/New Jersey is actually making a commission on franchisee phone calls. Since they make 18.5 percent on each call from payphones located in the Port Authority Bus Terminal, it's estimated they're clearing more than \$2 million in profits from these calls. That's more than they get in next from retail stores in the structure.

The FCC is finally introducing a proposal that providers of 900 service introduce each call with an explanation of the cost involved. If the customer hangs up at that point, he will not be charged. A final decision is expected by the end of the year. Owners of 900 numbers have come out against the plan, saying that people would hang up without good reason. Go figure that one out when you find time. Meanwhile, we'd like to propose a compromise: Save more switching systems are

becoming integrated and filled with intelligence, it should be possible to begin relaying pricing information while the actual call is being routed. In other words, your central office would see a call to a particular 900 number being placed, would consult a pricing table, and, while the call is being routed through the long distance lines, would play a recording to the caller. Of course, it's only a matter of time before some clown proposes slicking an advertisement there for all other calls. Perhaps we shouldn't say any more.

### AT&T Wants The World

AT&T wants to get permission from the U.S. government to start providing phone service to Vietnam, one of three countries that cannot be called from the United States (the others are Cambodia and North Korea). AT&T says that unlicensed operators are providing service through Canada, Japan, France, South Korea, Hong Kong, and Australia and they're making lots of money in the process. We can imagine AT&T's frustration being forced to stand on the sidelines.

### Advances in the U.K.

British Telecom has indicated what it calls a "fairer" system of paying for calls to directory assistance. Customers who use the service will be charged 37.5 pence plus 15 percent tax for up to two numbers. Now, after making that, you would think that you would get charged that rate for two requests. Not so. Whenever you use directory assistance, you can ask for up to two numbers. Most people, however, use the service to get a particular number they need at the moment. So, despite BT's clever way of phrasing it, it's likely the service will cost 37.5 pence per request. It is a rather inventive way of making less seem like more. Phone computers in the States will no doubt take note. By the way, calls to directory assistance from pay phones and from kiosk or dishdial people will still be free. And rates for various other calls will be reduced slightly to make up for the new charges. BT has introduced a couple of services for those people who use directory assistance heavily. Phone Base gives them direct access to the company's computerized system and Phone Disc is an electronic version of the phone books on CD ROM.

One apparently positive move that BT has made recently is to eliminate the charge for those calling cards, known as BT Chargecard's. Cardholders can just dial 144 and follow voice

THIS PAGE IS ROYALTY FREE  
RESTRICTED

One of the more interesting pages taken from a proprietary phone company document. We intend to shamelessly spread this one around until its value plummets like a rock.

progress to enter their account number, PIN code, and phone number they want to reach. They will be charged the same rates as a regular payphone call, which we hope is fairly close to residential rates. If not, then this is just more deep-poo.

Last year, British Telecom's trunk network became "the first telephone system in any major industrialized country to become fully digital." Now they've hit the halfway point in switching their local exchanges from electromechanical to digital. Yet only 75 percent of BT's customers have the capability of getting digital bills.

And just as in the United States, people in England are having problems with "premium" services that bill huge amounts of money to unsuspecting customers. The special area codes for these services are (0898, 08364, 0839, 0881, 0006, and 0077 (0000 calls are toll free.) In the areas that have been digitized, it is now possible to block access to these numbers. Still more proof of evolution. By the way, the cost of pressing the right computer keys to accomplish the blocking will be underwritten by raising the rates of the blocked numbers!

### New Services

Sprint has a new service called 900 to 800 Transfer that allows callers dialing a 900 number to be transferred to a toll-free 800 number. Why would anyone want to do this? The thought is that callers will dial a 900 number to get information about a particular item and then be transferred to an 800 number when they agree to buy it. The caller only gets charged for the time spent on the 900 number, at least in theory. The only way to really end on is to keep a pen, pad, and clock by the phone at all times.

Another new service Sprint is offering is for the benefit of hotels. It's called Answer Direct and it does what AT&T and the regional Bells have been doing for years: bill the call from the moment the called party picks up. Many hotels currently use the equivalent of a pen register tied into a computer. If you stay on for a certain amount of time, it's assumed that the call was answered and you get billed. Accuracy tends to go out the window in hotels because of the need to bill quickly. The new Sprint service will work in conjunction with the hotel's existing phone system.

New York will be the first city in the United States to test out prepaid charge cards on its payphones. First in Europe and Asia, charge cards (called NYNEX Charge Cards) will be available for sale at newsstands and other stores. Each phone will have a little screen that displays the amount remaining on the card and as each call

progresses, that amount will go down. The test is scheduled to begin in September with 60 to 80 payphones. We hope they avoid the mistakes made in countries like France, where it is impossible to use any payphone without a card. If cards, for whatever reason, are unavailable, there are no alternatives. We would hate to see such an oppressive system forced down our throat.

Another technological advance is being underway by Illinois Bell. Customers are now able to pay their bills over the same phone line they're paying for! By calling an 800 number and entering their secret ID, they can transfer money directly from their checking accounts to the phone company. Would you trust the phone company not to enter data in areas you don't own hands since they obviously have all the information they need to get at your money?

The new AT&T calling cards are out. "In order to comply with government requirements, AT&T is no longer sharing card numbers with your local telephone company," the mailing reads. As a result, we now have 14 digit numbers that bear no resemblance to telephone numbers. But, contrary to what they say, these new numbers are accepted by New York Telephone, which at last report was a local telephone company. For a "demonstration" of your calling card, you can call 800-255-3439. All cards seem to begin with 826 or 838. The next digit is either a one or a zero. The next six digits can be any number. The last four comprise the PIN. They, too, can be any number. Each card also has an international number which begins with 891253 followed by the card number without the four digit PIN. One number follows this which is a check digit. Then there is a two digit authorization code at the end. There are two other formats for the AT&T calling cards. One has 21 digits and always begins with either 891288 or 891253. This is followed by ten digits, a check digit, and a four digit PIN. Then there is a 17 digit version that begins with either 288 or 293, followed by ten digits, then a four digit PIN.

Southwestern Bell will be testing out a service called Message Express from its payphones. Customers will be able to leave a message when they encounter a busy signal. If you're in a payphone, though, callers will have to dial an 800 number that will be posted on the phone and have a one minute message. Payment will be by credit card only. COCOTs have been offering similar services for quite some time. We presume Southwestern Bell will have an advantage since they can instantly detect when a phone is no longer busy, while COCOT computers have to keep trying to get through periodically.

### Corporate Litigation

In one of the silliest cases we've heard of in a while, Mitsubishi is trying to sue AT&T because of security problems on an AT&T System 85 PBX. More than 30,000 unauthorized calls to places like Pacular and Paytel were made at a cost of more than \$400,000. Mitsubishi is claiming that AT&T never told them something that this could happen. According to one of Mitsubishi's lawyers, they were completely unaware that their system was vulnerable to attack. We believe they should be remedied with that as part of a slogan, "Mitsubishi: We're Completely Unaware." If AT&T had refused to help them, or if their equipment was impossible to safeguard, we could see Mitsubishi's point. But here it seems like they're just trying to pass the buck and get out of paying a huge bill for their ignorance. While we're on the subject of ignorance, or should we say malice, both New York *Wednesday* and New York State Police investigator Donald Delaney have repeatedly blamed such activity on phone phreaks. In fact, Newbery goes so far as to define phone phreaks as people who often make their living from figuring out how to make free calls. We don't expect people who are so completely out of it to understand what a phone phreak is. But we cannot tolerate having Mutual lies spread for the purposes of selling papers or getting warrants more easily.

The Tower of London is no better. They define hackers as "people who steal computer passwords to break into international databases and use servers illegally." According to them, George Snow received a phone bill for 8,000 pounds because somebody guessed his password on British Telecom's Dial Pass service which allows callers access to international computer services via a local call. His password, incidentally, was Spppppaa. Dial Pass customers have to sign an agreement saying they will not use easily guessable passwords. But Mr. Snow had signed up for the system prior to that and in addition, BT had approved the password themselves. We see the phone company as being responsible for the changes incurred, primarily because this is a consumer-based service. Different rules have to apply in these kinds of situations. You cannot penalize someone a huge amount of money because they chose a stupid password. However, a company that is in the phone or computer business has the obligation to see to it that its users are utilizing adequate security. If they fail to do this, as Matsubishi apparently did in the case above, then the penalty is theirs.

In another pair of lawsuits that shows how out

of control the telephone industry has gotten, AT&T is suing a COCOT company for not paying more than one million dollars of fraudulent charges. The company, North American Industries of Great Neck, New York has turned around and used New York Telephone for not giving COCOT companies a fair deal. In an interview on WBAL's *Giz The Week*, North American Industries president Barry Beriman said that found it an especially big problem for independent pay phones. The installation isn't very secure in most cases. All a person has to do is clip into the connection before it reaches the payphone and they can make all the calls they want. Since the payphone technology is completely within the COCOT, anyone getting access to the line before it reaches the COCOT wouldn't run into any restrictions. By contrast, New York Telephone payphones are controlled from the central office. No matter where someone taps into it, the phone company knows it's a payphone and won't allow calls to be placed without the proper coins or keys. It may be a wild guess on our part but perhaps when independent pay phones and alternate long distance companies are given the same access to technology that the regional Bell companies and AT&T have, they may stop trying people off so much. Right now, it seems to be the only way they can stay in business.

A great example of this is currently making the rounds. It seems that AT&T has a three digit calling card 1x (x being any number) followed by a 4 key will allow any zero pass call to go through from home phones. (We're told all it does is bell back to the originating number.) This does not work from regional Bell pay phones but it does work from a lot of COCOTs. Which means that again the COCOT owners are getting stuck, this time directly by AT&T.

### COCOT and PBX Features

We thought you might be interested in some of the features being advertised in COCOT literature. Selling points include: being able to accept tickets, dimes, and quarters (wow!), voice synthesized instructions; optional coin free access to the operator; emergency services; and 800 numbers (we can't understand why any payphone operator would want to be allowed to make essential services optional - this "feature" should be illegal); being able to detect busy signals, answer supervision, ringing, and intercept recordings; storing preset speed dial numbers; and, of course, remote programming capabilities.

The CTCA (Communications Fraud Control Association) is passing around some safety tips for corporate PBXs: Assign authorization codes

randomly on a need-to-have basis and limit the number of calls using these codes. Never attach codes with company telephone, station, or badge numbers. Instruct employees to safeguard their authorization codes, which should be assigned individually, not printed in billing records. Codes should be frequently changed and cancelled when an employee leaves the company. Remote access should be limited to domestic calling and shut down when not in use. Use the timer-of-day PAX option. Use a system-wide handler code, followed by an authorization code with the most digits your PAX can handle. Use a non-published number for remote access lines. Use a delayed electronic call response, which is the same as letting your phone ring four or five times before answering. Try backing your own system to find weaknesses, then correct them.

### Story of the Year

Earlier in the summer, the owners of the Long Island Pet Crematory in Middle Island, New York were indicted for allegedly not burying pets like they said they were doing. Instead of putting Spot or Fido in the ground by his/her tombstone or giving the ashes to the bereaved owners, they were said to have dumped up to 250,000 carcasses in a mass grave and given random mixed ashes to the pet owners. Needless to say, this has not gone over well. (The Long Island Pet Crematory is right next door to 2600's post office boxes and there have been vigils, demonstrations, and near riots there over the past couple of months.) But in addition to this, the crematory owners are accused of gaining remote access to their competitor's answering machines late at night in order to get the names and numbers of dead pet owners before their competitors did. It's a nasty business.

### Another Great 900 Number

Our favorite press release of the week begins: "Have you ever arrived at the hotel at which you and everyone you would be staying, only to find that a mistake had been made regarding you to they elsewhere?" Has your daughter been on a camping trip at the same time you were required to leave the country, and you needed to tell her something personal first? Or did you ever want to contact an old friend only to discover that they had moved? A new service called 900 301 DOWN will do all the above problems as well as greatly expand an individual's ability to send and receive secure messages. The calls cost \$1.95 for the first minute and 95 cents for each additional minute. You would have to be a Class A Food to use this service as every aspect of it can be easily accomplished for significantly less. When you call in, you can press

1 to receive an identification number and password for their system. (That's the only feature we can't accomplish for less!) Pressing 2 allows you to receive another subscriber's repository of phone numbers. This means for \$1.95 you can find out somebody's phone number(s). (In the example of trying to track down an old friend who had moved that was given above, the company neglects to mention that the old friend has to be subscribing to the same service! How many old friends do you suppose you've lost touch with who are subscribing to the same brand new service as you?) By pressing 3, you can leave a voice message for a subscriber. They make it clear that anyone can spend \$1.95 to leave a brief message, not just subscribers. Just like calling an answering machine, except you get to spend so much more. Plus, you have to enter the subscriber's identification code after pressing 3. We hope you have a touch tone phone. Pressing 4, entering your identification code, and entering your password allows you to retrieve your messages. Any decent answering machine will allow you to do the same thing at no cost other than the phone call. Various voice mail services allow you almost unlimited access for charges of around \$15 a month. Many of these have additional services, such as paging features. If you were to call this 900 service only eight times within a month, either to leave messages or retrieve them, you would be spending more. By pressing 5, you can "update your personal phone or repository" which we presume to mean update your phone numbers so other subscribers can find out what they are. One of the marvels of the communications age is the ability to convey information for free. Believe it or not, it does not cost \$2.00 plus to get somebody's phone numbers or to announce them to the public. There are too many preferable methods to mention here.

The final selection can be accessed by pressing 6, which gives you "a secure, private phone line for outbound calls". Unless they've somehow managed to get access to secure phone lines used by the military, most consumers who'those used far to find phone lines that cost less than 95 cents a minute (\$1.95 for the first). And, should anyone believe their calls are somehow more secure because they're being made through a third party, read our recent Winter and Spring issues that detail why this is not so (concerning the 900 STOPPERS "service"). If you believe this kind of thing is worthwhile, you'd probably be interested in the computer version, available at 900 301 PORT.

### Japanese Numbers

Some "home country direct" numbers from Japan, United States: 0039-111; Hawaii only: 0039-181; Canada: 0039-161; United Kingdom: 0039-441; France: 0039-331; Italy: 0039-391; Netherlands: 0039-311; South Korea: 0039-821; Hong Kong: 0039-851; Taiwan: 0039-886; Thailand: 0039-651; Singapore: 0039-651; Australia: 0039-611; and New Zealand: 0039-641. To make regular international calls from Japan, dial 001 plus country code, city code, and subscriber number.

### Customs of the U.S.A.

According to the San Antonio Light, if you live in San Antonio and want to report someone who owns "gangster type weapons such as machine guns and sawed-off shotguns", you can call 666-GUNS. The Gun Owners a Springfield, Virginia based publication took exception to the phone number. (Does the BATF [Bureau of Alcohol, Tobacco, and Firearms] have a fascination with that number? A few years ago, the BATF had also made a sample badge for an emblem - the number on the badge was 666. Now they are using that same number again, presumably as a way to intimidate people.)

To shed light on another issue, we've heard many stupid ideas in this so-called War Against Drugs. Some cities have made it impossible for psychopaths to receive calls. That way, drug dealers won't be able to receive calls and there will be less drugs. Other cities have eliminated tooth some payphones and replaced them with old fashioned rotary phones. That way, drug dealers won't be able to use touch tones to activate other drug dealers' beepers. This will result in less drugs. Certain officials have suggested outlawing beepers for anyone under 18. Less beepers means less drugs. If by some miracle, drug dealers manage to survive in a rotary dial, door-callback, beeperized environment, the latest brainstorm will stop them dead. Illinois Bell figures that anybody putting money into a phone at night must be a drug dealer. Therefore, they are beginning a new policy in Chicago: a power neighborhood, no coins will be accepted between 7:30 pm and 4:00 am. The hours were originally 6:00 pm to 6:00 am. According to the Chicago Sun Times, there has been no opposition to this idea. As one businessman put it, "I think it's a great idea. Anything to cut down on drugs." Anything.

### The Outrage

We never get as many phone calls as we did this summer concerning the rotary phone ouagers that affected various areas of the country. Everybody wanted to know if hackers were responsible. And, even if they weren't, could they

be in the forest? We told them we couldn't make any promises but it is pretty certain that such outages and fowl-ups will be commonplace in the years to come. Most of it will be due to the usual stupidity and shrewdness on the part of those who implement these systems. As anyone who has ever installed a new operating system on a personal computer can tell you, there are always transitional problems to contend with. Without exception, for major phone companies not to have an easy way of getting around the problems that occurred when a new switching system (Signaling System 7) was implemented is nothing short of criminal. After all, telephones are life lines for many everyone. Yet these in charge are content to look at the whole operation as another big computer system. According to Richard Perreone, chief of the Federal Communications Commission's Consumer Carrier Bureau, the recent failures are actually a sign of progress because they were caused by upgrades, Double-speak City.

Perreone said the prospect of an independent backup system was out of the question because of the expense involved. This FCC spokesman also suggested that those who needed absolute reliability should go out and buy their own backup system. About the only positive thing this guy did was stop short of imposing fines on people who complain.

For the record, the problems were related. There was a flaw in software obtained from DSC Communications of Plano, Texas. It was never tested adequately by anyone. California, Virginia, West Virginia, Maryland, Pennsylvania, North Carolina, and Washington DC were all affected at some point by the flaw.

### Another Outrage

This advertisement was placed in various St. Louis papers on June 9, 1991:

### AN OPEN LETTER TO OUR BUSINESS CUSTOMERS:

At Southwestern Bell Telephone, we've built a high standard of customer service and we take pride in that. Unfortunately, we recently experienced a rare failure in a computer system that transmits data.

At a recent about 750 St. Louis-area business customers lost access to important day-to-day services. For those of you whose service was impaired, that failure translates to a disruption in your operations and, at best, an inconvenience to your customers. We apologize for taking you down in this instance. Though the problem lingered longer than any of us would have liked, we made every effort to see that it was fixed as quickly as

possible. Our technicians worked around the clock, logging more than 2,500 hours. To correct the problem, we enlisted the help of experts from across the country.

Still, I know that even though we pulled out all stops to restore service, you would rather it not have happened at all. So would we. Now that service has been restored, our focus has shifted to further upgrading the system's reliability. While some of the solutions may take time to complete, we will permit until the service we provide meets your high standards and ours. In the meantime, we will technically contact customers whose service was interrupted. We want to share with you our plans for improving the system, and we want to hear your comments on how we can continually improve our service to you. We are committed to earning your confidence over again.

Recently,

Randy Barry,

President

Western Division

Southwestern Bell Telephone

Among the casualties of their screwup was Arlington Park Race track near Chicago. They had to turn away their customers because the phone problems crippled its computerized betting operations. Customers were not very happy. And, according to experts, Southwestern Bell is not liable unless it can be proven that they did this deliberately. In addition, AT&T's were shut down, the entire Federal Reserve System was slowed down, and banks were cut off from their main computers. While Randy Barry was more than happy to tell everyone how many hours Southwestern Bell's technicians logged, he neglected to mention just how long their computers were down for: Six days.

A Southwestern Bell spokesperson said, "We don't anticipate this happening again." They were didn't anticipate it the first time.

But at least we know they're in touch with their customers. "You would rather it not have happened at all." Such a keen sense of perception does not come cheap.

### Caller ID Pushers

A recent letter to the Public Service Commission from New York Telephone argued for the implementation of Caller ID and CLASS services as soon as possible. "The current balance of privacy between calling and called parties is the result of technology, not social policy. In early telephone service, all calls were placed through operators, who identified the caller to the called person. Party line service, which three quarters of American telephone customers had in 1950,

provided a check on the anonymity of the caller, thus insuring calls could not be depended upon to be private. By the 1960's, telephone technology tipped the balance in favor of the caller when direct-dial, single party telephone service became widespread, an 6th anniversary calls. Technological change, which caused the imbalance, now can help improve it, in the form of Caller ID."

They then use this as justification for not implementing all-call blocking for customers who want it. All-call blocking would mean that all calls made from a particular number (except to 911) would not transmit the phone number to the called party. New York Telephone wants to instead offer per-call blocking, meaning that the caller would have to dial a special code (\*67) before every call they wanted to make without transmitting their number. By doing it this way, New York Telephone reasons, less people would block their numbers and the called party would know that the caller had made a conscious effort to block theirs.

Why are the phone companies suddenly so concerned about all of these harassing calls that everyone is allegedly getting? We think they're much more concerned about selling their product to the public. If too many people elect to block their phone numbers, their product won't really be that appealing. But if it's made more difficult to block your number and if those who do are made to feel as if they're guilty of some crime, more people will subscribe and the phone companies will take it in.

If you still believe that this is about privacy, consider the two bits of misinformation all of the phone companies insist on spreading. 1) People who block all of their calls won't be able to transmit their number in an emergency. Not true. Enhanced 911 passes your number to the police regardless of whether you use call blocking. This service is becoming available throughout the country. Caller ID is irrelevant in these cases unless calls are calling non-emergency numbers. And that wouldn't make much sense in an emergency, would it? 2) This will spell the end of harassing phone calls. Totally untrue. All a caller has to do is call from a payphone, a calling card, a long distance company, or simply be out of the immediate area!

Since those people who are up to something or who want to remain anonymous will always manage to do so, the phone companies would be better advised to promote the service as something positive for those people who want to announce their arrival before they begin speaking. And as for what society wants or needs, let's leave that up to society, not the phone company.

# 2600 marketplace

**2600 MEETINGS.** First Friday of the month at the Calcomp Center—from 5 to 8 pm in the lobby near the payphones. 153 E. 53rd St., NY. Between 1st & 2nd. Come by, drop old articles, ask questions. Call 516-751-2690 for more info. Payphone numbers at Calcomp: 212-223-9011, 212-223-8927, 212-308-8044, 212-308-8162, 212-308-8184. Meetings also take place in San Francisco at 4 Embarcadero Plaza (outside) starting at 5 pm Pacific Time on the first Friday of the month. Payphone numbers: 415-398-9803, 415, 6.

**SPY SHOP CATALOGUE.** Packed with equipment, items, personal and privacy protection surveillance transmitters in kit form, telephone taps, bugs, stun guns, room monitors, decoding devices, analyzers, covert tracking systems, defense sprays, caller ID, people trackers - find anyone anywhere! Detection systems, zap tags, voice changers, scramblers, secure phones, and much more. Send \$5 check or money order to: Bug Busters, PO Box 978, Dept. 2-6, Shoreham, NY 11786. FAX 516-929-0772.

**WILL COPY \$10,000 for "sound radio" computer program and schematics.** Call Mike at 212-533-4351.

**KNOW WHO'S CALLING!** The Call Identifier has the answer. Displays caller's phone number when your phone rings. Stores phone numbers with date and time of call. \$79.95. \$10 for 2600 subscribers. E.D.E., PO Box 337, Buffalo, NY 14226. (716) 691-3476. Surveillance Counterintelligence equipment catalog \$5.

**CAN SUPPLY** software and computer hardware of any kind below wholesale prices. I am looking for sales people. If you can find one buyer, I will work out a percentage. Would like to correspond with hackers in Switzerland, Germany, Japan, and France. Anybody with access to satellite bomber technology or access to Los Alamos National Laboratory in New Mexico and/or Lawrence Livermore Labs in San Francisco. K. Henderson, PO Box 265, Agoura Hills, CA 91301. 818-889-8361.

**THE LITTLE BLACK BOOK OF COMPUTER VIRUSES.** The first book on how to write them! 190 pp., soft cover, with full IBM PC source code. \$14.95 postpaid, or

ask your local bookstore to order it. (ISBN 0-929408-02-0) American Eagle Publications, Box 49401, Tucson, AZ 85717.

**TECHNICAL SURVEILLANCE COUNTERMESURES,** communications engineering services. Ross Engineering, Inc., 7906 Hope Valley Court, Adamstown, MD 21710 800-US-DEBUG.

**COCOTS FOR SALE:** Perfect working condition, removed from service. Credit card only type, has card reader built into unit. DTMF, 12 number speed dial, \$80 each plus \$15 shipping. Call or write for info. Bill Rogers, 2030 E. Charleston Blvd., Las Vegas, NV 89104 800-869-8501, (702) 382-7348.

**TAP BACK ISSUES,** complete set (ss 1-9), high quality. \$50. SASE for index, info on other holdings. Robert H., 1209 N 70th, Wauwatosa, WI 53212.

**TAP BACK ISSUES,** complete set Vol 1-91 of QUANTITY copies from originals. Includes schematics and indexes. \$100 postpaid. Via UPS or First Class Mail. Copy of 1971 Esquire article "The Secrets of the Little Blue Box" \$5 & large SASE w/52 cents of stamps. Pete G., PO Box 463, Mt. Laurel, NJ 08054. We are the Original!

**OLD TAPES** of telephone recordings, raps, bays, etc. wanted for radio programs. Also, current recordings and funny phone calls welcome. Send to Emmanuel, PO Box 99, Middle Island, NY 11953. SEE ME HERE.

**Marketplace ads are free to subscribers! Send your ad to: 2600 Marketplace, PO Box 99, Middle Island, NY 11953. Include your address label. Ads may be edited or not printed at our discretion. Deadline for Autumn issue: 10/15/91.**

## When hackers ride horses:

**Cyberpunk: Outlaws and Hackers on the Computer Frontier**

by Kate Hartner and John Markoff  
\$22.95, Simon and Schuster, 354 pages  
Reviewed by The Devil's Advocate

The exploits of Kevin Mitnick, Pengo, and Robert Morris have become legendary both in and out of the hacker mainstream. Until now, however, hackers have had to worship their idols from afar. *Cyberpunk: Outlaws and Hackers on the Computer Frontier* unites hackers in this true life history by presenting an in-depth up-front view of these "techno-rebels" without the overzealous omniscient prophesies that usually accompany such a work.

*Cyberpunk* is a fitting sequel to Steven Levy's classic *Hackers*. Whereas Levy's treatise addressed the origins of hacking in its infancy, *Cyberpunk* is the New Testament depicting hacking as it is in the here and now. More than just a synthesis of current trends, however, *Cyberpunk* depicts the hacking lifestyle and

*Cyberpunk* culture that has evolved alongside our boundless fascination with computers and information. *Cyberpunk* portrays hackers as they really are, not people with lives not unlike our own. Yes, hackers have emotions, desires, and problems just like we do. No, they're not all computer-nerds or socially inferior psychos cooped up in the depths of the "matrix" to escape from reality. If anything, *Cyberpunk* will blast away some of the antiquated stereotypes that have persisted throughout the 80s.

In *Cyberpunk*, all the central characters identify closely with their science-fiction counterparts. Indeed, the "hater" here is one of the many friends that sit the fires of Mitnick, Pengo, and Tom (Robert Morris) together. The most interesting story by far is that of Pengo, a West Berliner who, more than any other character, epitomizes what it means to be a cyberpunk. Pengo was truly a computer outlaw, ascertaining the likeness of the character Case in William Gibson's *Neuromancer*, traveling the net in

### PURE CYBERFICTION,

Pasadena, CA). So once Lemmy led to the U.S. government he couldn't change his story, since he could risk violating his plea agreement or being indicted on federal perjury charges. Unfortunately, this probably resulted in a lot of false material being introduced by Lemmy, DiSacco, and Katie Hartner printing it as factual information in *Cyberpunk*.

Katie probably wasn't happy with me for refusing to help her, so part one of the book was written with a strong anti-Mitnick, pro-DiSacco bias. This bias rewarded Lemmy for his participation but robbed the readers of the real incident facts: Lemmy was charged simply as an "outlaw boy" in one hacking episode. This is the farthest thing from the truth; Lemmy was just as culpable as any of the other hackers partners for over 10 years. What do you believe?

Let's examine some interesting cover-ups. Katie Hartner did for Lemmy DiSacco:

1) In the gallery copy of *Cyberpunk*, Katie Hartner wrote that Lemmy DiSacco was going to work for DEC as a computer security consultant in lieu of court-ordered restitution (\$12,000). Why was the information eliminated from the final printed copy? Probably, DEC wouldn't be happy

as a source of data to sell, and owing no allegiance to country or nation. Readers familiar with The Cuckoo's Egg will find this section particularly interesting. *Cyberpunk's* account of the West Berlin hackers makes The Cuckoo's Egg look like a budding *Avatar* in the kindness of Stull's mercy. How readers can see what it was that Stull himself was trying to laboriously experience through his own terminal. *Cyberpunk* provides the missing pieces and puts Stull's Cuckooing perspective.

The book continues what hackers on all coasts have known and preached for years: that a computer system's worst enemy is its users. Nearly every system was hacked by exploiting poorly chosen passwords or bugs in the operating systems. Interestingly, *Cyberpunk* also confirms that the authorities amount to only so many bumbling Keystone computer cops desperately trying to match wits with misfits. The bad is that everyone described here got busted because they either talked too much or were betrayed by close friends. Without such help, the long arm of the law appears

## a review of cyberpunk

to be nothing more than a wet noodle.

Perhaps the central weakness of *Cyberpunk* is its somewhat blatant bias and lack of objectivity. Time and time again, readers will encounter the author's own prejudices slipping through the cracks between the lines. Although no one is innocent in *Cyberpunk*, readers will easily get the impression that Mitnick is the sinner of the three. This is despite the fact that Mitnick's exploits appear equal, if not less damaging, than those of the others. Unfortunately, the bias rears its ugly head in a number of passages, a telltale sign that the authors appear to be more impressed with Mitnick's attitude than with anything else. It is also no coincidence that Mitnick is the only central character that refused to be interviewed for the book.

Despite this weakness, *Cyberpunk* remains a thought-provoking looking glass into the lives of the most interesting people in the Information Age. The true value of these hard-core hackers will be revealed to readers' spellbound while they eagerly await a sequel.

### SAYS MITNICK

Each Lemmy - he did provide Katie with enormous detail regarding the DEC break-in. Next to mention the environmental issue regarding DEC having the problem that precluded their network.

2) On page 80, Katie wrote that Lemmy DiSacco obtained a false identity to obtain a job that required a "clean" driving record. The name Katie reported was "Robert Andrew Bolding". This is false! The name of the "false" identity was "Russell Anthony Brinkling". But why would Katie print that erroneous information? I know why! Lemmy was working under the fraudulent identity (Russell Anthony Brinkling) while he was collecting unemployment under his real name (Dorwood Mitchell DiSacco) thereby defrauding the State of California. Now Katie would want the "truth" to be known - it might cause Lemmy to refuse to participate in possible upcoming interviews and talk shows promoting her book.

I could go on and on, even simple verifiable information. For example, on page 84, Katie describes a scenario where I asked Brome out on a date. To print an advisory picture, she stated that I was always eating in the computer room when talking with Brome. Very interesting, since at the Computer Learning Center of Los Angeles, too

food or drinks can *never* be brought into the computer room. Even though this scenario is pretty insignificant, it demonstrates the introduction of inaccurate and misperceived facts.

Again, when describing my arrest at USC in 1982, Katie wrote on page 71 that I invited Mark Brown (USC System Manager) to his investigative techniques. This is truly amazing, since I never spoke with Mark Brown.

There are many, many false statements, misrepresentations, and inaccurate inferences in part one of this book. I could only say it is sad that the authors were too cheap to compensate me for my time; instead they hid under the guise of "maintained objectivity". This reified in my refusal to participate.

In summary, *Cyberpunk* is an interesting read-through as long as readers understand this prepared non-fiction book is not what it claims to be. Part one of the book is 20 percent inaccurate. I believe the authors acted with malice due to my refusal to participate for free. Katie Hartner's only hope was seeking the expression of my convicted co-defendant, Lemmy DiSacco. She did gain her full cooperation which resulted in a strong bias and misrepresentation of facts.

The following are comments by Kevin Mitnick on the review of the book that are about him.

I am sad to report that part one of the book *Cyberpunk*, specifically the chapters on Kevin, The Dark Side Hacker, is 20 percent fabricated and libelous. It seems that the authors acted with malice to cause me harm after my refusal to cooperate. Interestingly enough, I did offer to participate as a factual information source if I was compensated for my time, but the authors refused, claiming it would limit my objectivity. So consequently, I declined to cooperate.

However, my co-defendant Lemmy DiSacco of Data Processing Design, chose to participate probably in the hopes of being reprinted as a "hero" who was responsible for bringing me to justice. Lemmy seemed to have gained unquestionable credibility when he turned us both on Digital and the U.S. government. Surprisingly, he was "slandered" first as believed to be totally credible by the U.S. government. Case in point: most of the U.S. government's argument to hold me without bail was based on false information (this was later admitted by the U.S. government). This information, I believe, was mainly from Lemmy DiSacco and his cronies: Steven Brome and



